1 OF 2

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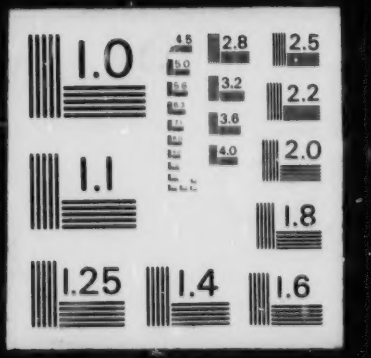

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Synoptic Rainfall Data Analysis Program (SYNOP)

Hydroscience, Inc, Westwood, N J

Prepared for

Municipal Environmental Research Lab, Cincinnati, Ohio

Jul 76

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SYNOPTIC RAINFALL DATA ANALYSIS PROGRAM (SYNOP)

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7. Author(s)

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9. Performing Organization Name and Address

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U. S. Environmental Protection Agency
Municipal Environmental Research Laboratory
Cincinnati, Ohio 45268

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For Magnetic Tape, see PB- 264 562

Documentation and magnetic tape containing source file and sample data file.

16. Abstracts

An integral part of the assessment of storm loads on water quality is the statistical evaluation of rainfall records. Hourly rainfall records of many years duration are cumbersome and difficult to analyze. The purpose of this rainfall data analysis program is to provide the user with a tool for summarizing and statistically characterizing a rainfall record of interest using U.S. Weather Bureau magnetic tapes. Statistical analysis of variables of interest (volume, duration, intensity, and time between storms) are given to determine seasonal trends which are of importance in accessing impacts and selecting control alternatives for storm related loads.

17. Key Words and Document Analysis. 17a. Descriptors

*Rainfall

*Storm

*Water pollution

*Computer programs

Surface water runoff

Statistical Analysis

17b. Identifiers/Open-Ended Terms

*Rainfall records

*Storm loadings

Weather Bureau

Magnetic tapes

Fortran

17c. COSATI Field Group 13 B

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APPENDIX E

DOCUMENTATION FOR SYNOPTIC RAINFALL DATA ANALYSIS PROGRAM - SYNOP

E.1 Introduction

An integral part of the assessment of storm loads on water quality, is the statistical evaluation of rainfall records. Hourly rainfall records of many years duration are cumbersome and difficult to analyze. Tools to summarize the variables of interest (volume, duration, intensity, and time between storms) are needed to determine seasonal trends which are of importance in assessing impacts and selecting control alternatives for storm related loads. The purpose of the SYNOP rainfall data analysis program is to provide the user with a tool for summarizing and statistically characterizing a rainfall record of interest. Copies of the Synoptic Rainfall Data Analysis Program (SYNOP) with sample rainfall tapes and documentation can be obtained at a modest cost from:

National Technical Information Service
Office of Computer Products
5285 Port Royal Road
Springfield, Virginia 22161

E.2 Description

Hourly rainfall data is obtained for a minimum of five years of record to provide sufficient confidence in the rainfall characterization. Longer term records covering many years are preferable and are usually available from U.S. Weather Bureau Stations.

The hourly data are then summarized by storm events, each with an associated unit volume (V, inches), duration (D, hours), average intensity ($I = V/D$, inches/hour), and time since the previous storm (Δ, hours) measured from the midpoint of the successive storms. A storm definition

must be established to determine when, in the hourly record, a storm begins and ends. Program SYNOP delineates storm events as rainfall periods separated by a minimum number of consecutive hours without rainfall. The recommended number of hours without rainfall is 3 hours.

The statistics of relevant storm parameters are then computed. The mean and the coefficient of variation of each parameter are determined: the mean is the arithmetic average; the coefficient of variation is defined as the standard deviation divided by the mean. The parameters of interest are storm intensity, duration, unit volume and time between storms. At the end of each year, a histogram is produced showing the amount of rainfall for each hour of the year.

After the complete period of record has been read, the following operations are performed on duration, D, intensity, I, volume, V, and delta, Δ:

1. Statistics by month
2. Plot of average and standard deviation by month
3. Statistics by year
4. Plot of average and standard deviation by year
5. Percent of occurrences less than or equal to the given value (and associated plot)
6. Return period in years and associated plot.

E.3 Input Structure

The usual method for transmitting rainfall data is via magnetic tape. SYNOP has been written assuming that the data is aligned on a U.S. Weather Bureau tape in chronological order within each station. There is no logical separation between stations and a tape marker appears at the end of a file. Sometimes, depending on the retrieval system used to generate the tapes, stations are divided by time periods among several tape files. The various possibilities have been accounted for by the several fields that appear on the control card. For each station, at least one control card is needed for each tape file. The user concludes his input deck with a card containing a /* in columns 1 and 2.

E.3.1 Control Card Description

6	8	10	15	20	25	30	35	41	(Ending Col. Nos.)
ISTA	IRQYR	IRWD	STMDF	ISKIP	IPAUS	IDISM	ICNST	TAPEN	

FORMAT (A6, A2, I2, 5I5, 3A2)

ISTA = desired station number (station number is defined by the U.S. Weather Bureau)

IRQYR = last 2 digits of year number where execution is to begin. If left blank, then the execution will begin at the first hourly rainfall record.

IRWD = 0, begin search immediately (used for initial search)
1, rewind tape before beginning search (used as required in subsequent searches)

STMDF = storm definition, number of consecutive hours without rainfall which indicates the end of a storm (3 hours is recommended)

ISKIP = 0, print hourly rainfall data
1, skip printing hourly rainfall data

IPAUS = 0, indicates that data for the requested station will end after the present tape file has been read.
1, indicates that more data for the requested station is expected after the present tape file has been read. The program will pause to allow the operator to change tapes if necessary.

IDISM = 0, no rewind after the present tape file has been read.
1, rewind and dismount tape after file has been read.
IDISM = 1 for last analysis on a tape.

ICNST = 0, data for the requested station begins with the current tape.
1, data for the requested station is being continued from a previous tape file.

TAPEN = next tape number to be mounted (is printed on the console typewriter as an operator instruction).

In the example shown in Table E-1, 2 stations are requested, Station 410016 appears on 4 tape files (thus requiring 4 control cards) and Station 052220 appears on only one tape file. A brief explanation of this data input follows.

Card Number	Explanation
1	Station 410016; rewind tape before beginning search; 3 consecutive dry hours define end of storm; print hourly data; pause after reading tape file because more data is expected; rewind after tape file has been read; data for 410016 begins with this tape file; next tape is W1036.
2	Station 410016; starting in 1962; rewind tape before search begins; 3 consecutive dry hours end storm; print hourly data; pause after reading tape file because more data is expected; rewind after tape file has been read; this is a continuation of Station 410016; next tape is W3375.
3	Same as 2, but do not rewind after station has been read and start at first hourly rainfall record. Note that the next tape to be mounted is W3375 (the same as the present tape). No rewinding is done since the next set of data is on the next file on the same tape.
4	Begin in 1974; do not rewind tape before search begins; 3 consecutive dry hours end each storm; print hourly data; end of station will be recognized after this tape file has been read; rewind tape after tape file has been read; this is a continuation of Station 410016.
5	Station 052220; rewind tape before beginning search; 3 consecutive dry hours define the end of storm; print hourly data; end of station after this tape file has been read.
6	End of input data deck.

TABLE E-1

INPUT STRUCTURE FOR PROGRAM SYNOP

Card No.	ISTA (1-6)	IRQYR (7-8)	IRWD (9-10)	STMDF (11-15)	ISKIP (16-20)	IPAUS (21-25)	IDISM (26-30)	ICNST (31-35)	TAPEN (36-41)
	Column Number								
1	410016		1	3	0	1	1	0W1036	
2	410016	62	1	3	0	1	1	1W3375	
3	410016		1	3	0	1	0	1W3375	
4	410016	74	0	3	0	0	1		
5	052220		1	3	0	0	0		
6	/*								

E.4 Source Listing of Program SYNOP

Program SYNOP is written in FORTRAN IV, Level G for IBM 1130 compatible computer systems. Minor changes in the coding of input-output functions will facilitate its use on other computer systems. The program nominally uses a high speed printer, a disk drive, a magnetic tape drive, and a card reader.

This section presents a flow chart of the SYNOP program and a complete listing of the FORTRAN source code. Section E.5 presents an example execution of program SYNOP.

E.4.1 Flow Chart For Program SYNOP

A flow chart for program SYNOP is presented on the following two pages.

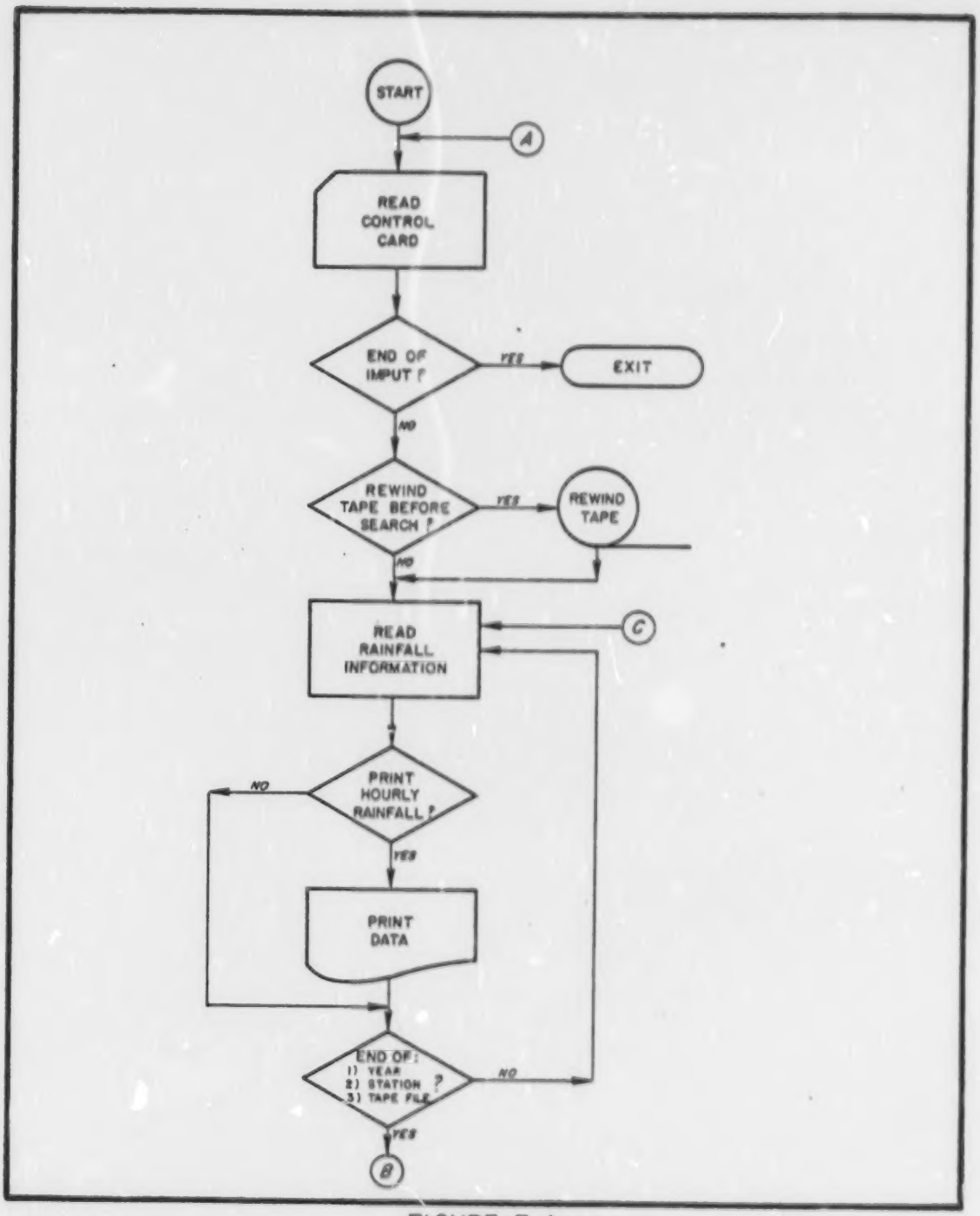


FIGURE E-1

FLOW CHART FOR PROGRAM 'SYNOP'

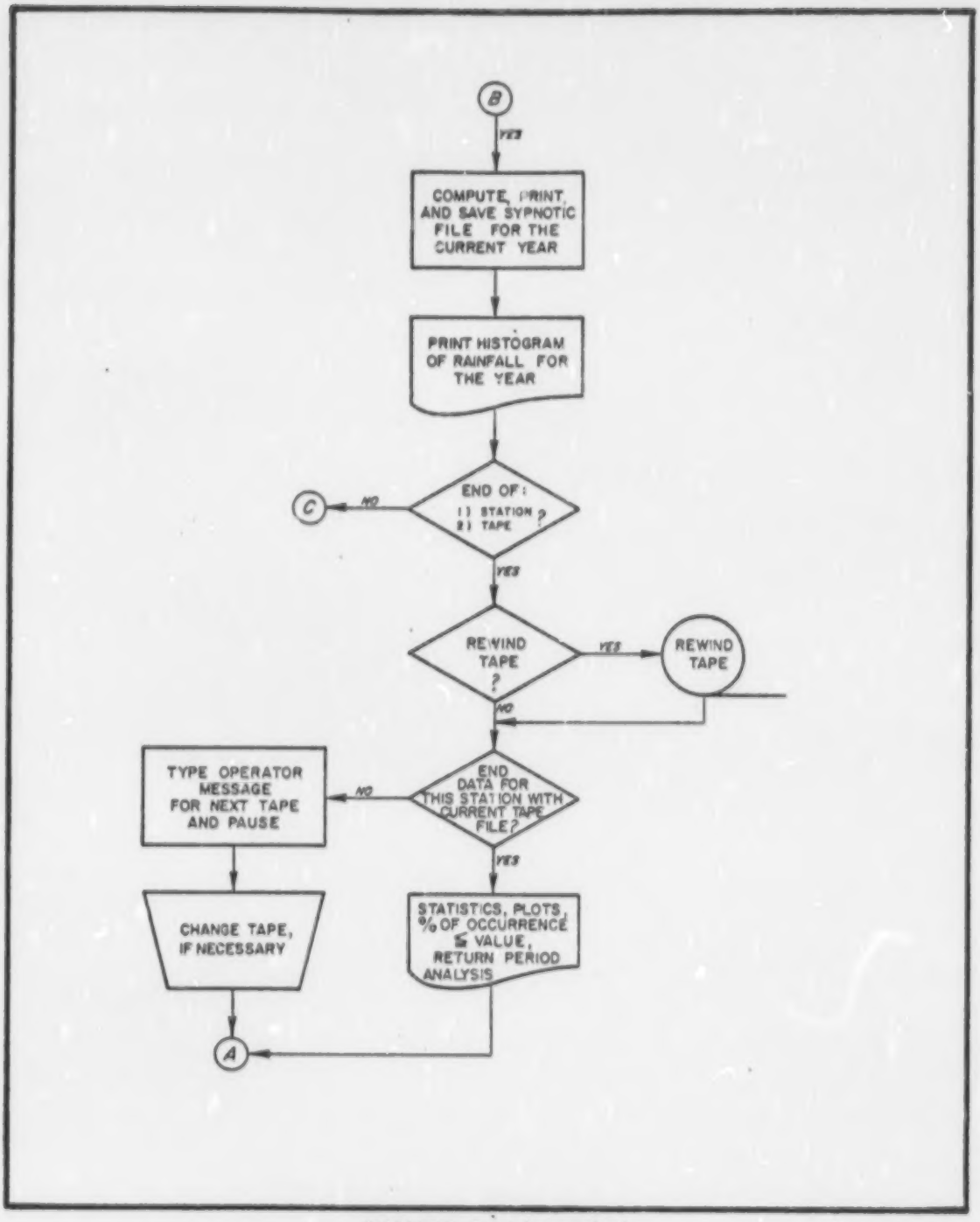


FIGURE E-1 (CONT'D.)

FLOW CHART FOR PROGRAM 'SYNOP'

E.4.2 Source Listing for Program SYNOP

```
C             ***** SUBROUTINE COAD2 *****
C
      SUBROUTINE COAD2 (X,Y,XMAX,XMIN,YMAX,YMIN,NTOT,NPLT,NLINE,NXSPA,
     1ICODE,INOSK,ISIDE,ISYM)
C
C     THIS SUBROUTINE WILL PLOT UP TO 10 SIMULTANEOUS PLOTS ON THE SAME
C     GRAPH
C     IT WILL ALSO PLOT 2 GRAPHS SIDE BY SIDE IF ISIDE IS SET EQUAL TO 1
C
C     X=ARRAY OF X'S (1-DIMENSIONAL ARRAY, FIRST NTOT REPRESENT X1, SECOND
C     NTOT REPRESENT X2, ETC.)
C     Y=ARRAY OF Y'S (1-DIMENSIONAL ARRAY, FIRST NTOT REPRESENT Y1, SECOND
C     NTOT REPRESENT Y2, ETC.)
C     WHEN USING THE OPTION TO PLOT 2 GRAPHS SIDE BY SIDE, THEN INPUT
C     THE X'S AND Y'S AS FOLLOWS...
C     THE FIRST NTOT(1)*NPLT(1) ARE FOR THE LEFT GRAPH AND THE NEXT NTOT(2)
C     *NPLT(2) ARE FOR THE RIGHT GRAPH
C     XMAX=MAXIMUM VALUE IN X-DIRECTION
C     XMIN=MINIMUM VALUE IN X DIRECTION
C     YMAX=MAXIMUM VALUE IN Y-DIRECTION
C     YMIN=MINIMUM VALUE IN Y-DIRECTION
C     NTOT=NUMBER OF POINTS PER PLOT
C     NPLT=NUMBER OF PLOTS
C     THERE IS A XMAX, XMIN, YMAX, YMIN,NTOT, NPLT FOR EACH GRAPH IF 2 ARE
C     BEING USED
C     NLINE=NUMBER OF LINES IN Y-DIRECTION
C     NXSPA=NUMBER OF SPACES IN THE X-DIRECTION FOR EACH GRAPH
C     ICODE=0 IF ONLY ONE SET OF X'S ARE TO BE PLOTTED
C     ICODE=1 IF MORE THAN ONE SET OF X'S ARE TO PLOTTED
C     NOTE--EXCEPT WHEN ICODE IS 0, DIMENSION X AND Y BY NTOT*NPLT IN THE
C     MAINLINE.
C     WHEN ICODE=0, DIMENSION Y BY NTOT*NPLT, AND X BY NTOT IN THE MAINLINE.
C     INOSK=OPTION NOT TO SKIP TO A NEW PAGE EACH TIME COIPL IS CALLED.
C                  INOSK=0--SKIP TO A NEW PAGE
C                  INOSK=1--DO NOT SKIP TO A NEW PAGE
C     ISIDE DETERMINES WHETHER 1 OR 2 GRAPHS WILL BE PLACED SIDE BY SIDE
C         ISIDE=0..1 PLOT ON PAGE
C         ISIDE=1..2 ADJACENT GRAPHS WILL BE PLOTTED
C
C     ISYM=VECTOR OF SUBSCRIPTS CORRESPONDING TO SYMBOLS TO BE PLOTTED
C     FOR EACH OBSERVATION
C     TABLE OF CORRESPONDING SYMBOLS--
C
C     NUM SYMB      NUM SYMB      NUM SYMB      NUM SYMB      NUM SYMB      NUM SYMB
C       1   1         9   9        17   G        25   O        33   #        41   $
C       2   2        10   0        18   H        26   P        34   X        42   )
C       3   3        11   A        19   I        27   Q        35   Y        43   (
C       4   4        12   B        20   J        28   R        36   Z        44
C       5   5        13   C        21   K        29   S        37   .        45   '
C       6   6        14   D        22   L        30   T        38   *        46   +
C       7   7        15   E        23   M        31   U        39   ,        47   -
C       8   8        16   F        24   N        32   V        40   /
      DIMENSION X(1),Y(1),IY(51)
      DIMENSION XMAX(2),XMIN(2),YMAX(2),YMIN(2),XSCAL(2),YSCAL(2),E(2)
      DIMENSION  YVAL(2),IC(10,2),NTOT(2),NPLT(2),ICODE(2)
      DIMENSION ABC(20),      IX(102),FSCAL(11),IA(48),ISYM(1)
      DATA IB/' '/,IX/20*'I'/,ABC/20*'...'/
```

```
      DATA IA/'1','2','3','4','5','6','7','8','9','0','A','B','C','D','E
     1','F','G','H','I','J','K','L','M','N','O','P','Q','R','S','T','U',
     2'V','W','X','Y','Z','.','*','-','/','$',')','(',205+4,32064,'+',
     3'=',' '/
      IO=5
C               SET ARRAY  IC  DIMENSIONED 10 X 2 EQUAL TO 1
      CALL SETIA(IC,10,2,1)
      DO 16 I=1,2
C               CALCULATE INTERVAL BETWEEN PRINT POSITIONS ON X-AXIS AND
C               BETWEEN LINES ON Y-AXIS
      XSCAL(I)=(XMAX(I)-XMIN(I))/FLOAT(NXSPA)
      YSCAL(I)=(YMAX(I)-YMIN(I))/FLOAT(NLINE)
C               E=HALF THE INTERVAL IN THE Y-DIRECTION (EPSILON)
   16 E(I)=YSCAL(I)/2.
C               NGRTO=NUMBER OF POINTS X NUMBER OF PLOTS.  GRAND TOTAL
C               OF THE NUMBER OF POINTS ON THE LEFT SIDE GRAPH.
      NGRTO=NTOT(1)*NPLT(1)
C               CHECK IF NEW PAGE IS DESIRED
      IF (INDSK .NE. 1) WRITE (IO,202)
  202 FORMAT (1H1)
C               LXSPA=NUMBER OF 5-SPACES ON X-AXIS
    1 LXSPA=NXSPA/5
C               PRINT OUT TOP BOARDER
      WRITE(IO,203) (ABC(I),IX(I),I=1,LXSPA)
  203 FORMAT (13X,'I',20(A4,A1))
C               CHECK IF TWO GRAPHS SIDE BY SIDE ARE DESIRED
      IF (ISIDE-1) 84,15,84
C               IF THEY ARE, PRINT TOP BOARDER FOR RIGHT GRAPH.
   15 WRITE(IO,205)(ABC(I),IX(I),I=1,LXSPA)
  205 FORMAT (1H+,67X,'I',10(A4,A1))
   84 IXSPA=NXSPA+1
      KXSPA=NXSPA+2
      NLIN=NLINE+1
C               M2=NUMBER OF SIDE BY SIDE GRAPHS
      M2=1+ISIDE
      DO 13 K=1,NLIN
C               SET OUTPUT LINE TO BLANKS
      CALL SETIA(IX,102,1,IB)
C               SET RIGHT SIDE OF LINE TO BLANKS
      CALL SETIA(IY,51,1,IB)
C               SET LAST ELEMENT OF LINE TO AN  'I'
      IX(KXSPA)=-14016
      IF (ISIDE-1) 89,87,88
C               IF SIDE BY SIDE IS CHOSEN, SET LAST ELEMENT OF RIGHT SIDE
C               TO AN  'I'
   87 IY(KXSPA)=-14016
   88 DO 18 M=1,M2
C               YVAL=VALUE OF CURRENT POSITION ALONG Y-AXIS.  (BEGINNING
C               AT TOP OF THE GRAPH WITH A VALUE OF  YMAX  AND DECREASING
C               BY A VALUE OF  YSCAL  FOR EACH LINE)
      YVAL(M)=YMAX(M)-(K-1)*YSCAL(M)
C               NP=NUMBER OF PLOTS ON THIS SIDE
      NP=NPLT(M)
C               NT=NUMBER OF POINTS ON THIS SIDE
      NT=NTOT(M)
C               4 LOOP IS FOR EACH PLOT
      DO 4 I=1,NP
```

```
C             11 LOOP IS FOR EACH POINT
      DO 11 KO=1,NT
C             CHECK IF COUNTER FOR THIS PLOT EXCEEDS NUMBER OF POINTS
C             FOR THIS PLOT
      IF(IC(I,M)-NT)  20,20,4
C             IF NOT, SET  J  EQUAL TO CURRENT COUNTER VALJE
   20 J=IC(I,M)
C             I1=SUBSCRIPT OF CURRENT POINT
      I1=J+(I-1)*NTOT(M)+NGRTO*(M-1)
C             TEST=DIFFERENCE BETWEEN Y VALUE OF CURRENT POINT AND CUR-
C             RENT Y POSITION
      TEST   =ABS(Y(I1)-YVAL(M))
C             IF TEST IS LESS THAN OR EQUAL TO EPSILON, THIS POINT IS TO
C             BE PLOTTED ON CURRENT LINE
      IF(TEST-E(M)-1.E-6) 12,12,3
C             IF TEST IS GREATER THAN EPSILON, SEE IF Y-VALUE OF CURRENT
C             POINT IS GREATER THAN CURRENT Y POSITION
    3 IF( Y(I1)-YVAL(M))  4,4,5
C             IT IS GREATER, THEREFORE INCREASE COUNTER AND GO TO NEXT
C             POINT
    5 IC(I,M) = IC(I,M)+1
      GO TO 11
C             TEST INDICATES THE POINT IS TO BE PLOTTED ON THIS LINE
C             I2=CORRESPONDING SUBSCRIPT IN X-DIRECTION
   12 I2=J+(I-1)*NTOT(M)*ICODE(M)+NGRTO*(M-1)
C             UPDATE COUNTER
      IC(I,M) = IC(I,M)+1
C             IPOS=POSITION ALONG X-AXIS
      IPOS=(X(I2)-XMIN(M))/XSCAL(M)+1.5
C             IF  IPOS  IS LESS THAN 0 OR GREATER THAN THE NUMBER OF
C             POSITIONS IN THE X-DIRECTION, THEN DON'T PLOT IT
      IF( IPOS.GT.IXSPA.OR.IPOS.LE.0 )   GO TO 11
      IF (M-1) 33,33,32
   33 IF (INDSK .NE. 2) IAI=ISYM(I1)
      IF (INDSK .EQ. 2) IAI=38
      IX(IPOS)=IA(IAI)
      GO TO 11
   32 IAI=ISYM(I1)
      IY(IPOS)=IA(IAI)
   11 CONTINUE
    4 CONTINUE
   18 CONTINUE
      IF (ISIDE-1) 34,35,34
   34 WRITE(IO,200)YVAL(1),(IX(J),J=1,IXSPA)
  200 FORMAT (1X,F10.3,' I',102A1)
      GO TO 13
   35 WRITE(IO,206)YVAL(1),(IX(J),J=1,IXSPA)
  206 FORMAT (1X,F10.3,' I',43A1)
      WRITE(IO,207)YVAL(2),(IY(J),J=1,IXSPA)
  207 FORMAT (1H+,55X,F10.3,' I',42A1)
   13 CONTINUE
      DO 10 I=1,20
   10 IX(I)=-14016
      WRITE(IO,203)(ABC(I),IX(I),I=1,LXSPA)
      IF (ISIDE-1) 38,39,38
   39 WRITE(IO,205)(ABC(I),IX(I),I=1,LXSPA)
   38 KXSPA=NXSPA/10+1
```

```
      DO 17 M=1,M2
      I2=KXSPA*M
      I1=I2-KXSPA+1
      DO 17 I=I1,I2
   17 FSCAL(I)=XMIN(M)+(I-1-(M-1)*KXSPA)*XSCAL(M)*10.
      WRITE(IO,204) (FSCAL(J),J=1,KXSPA)
  204 FORMAT (6X,11F10.2)
      IF (ISIDE-1) 60,43,60
   43 WRITE(IO,210)(FSCAL(J),J=I1,I2)
  210 FORMAT (1H+,60X,5F10.2)
   60 RETURN
      END
C
C
C           ***** SUBROUTINE DAIDA *****
C
      SUBROUTINE DAIDA(IDAYN,MONTH,DAY,YEAR)
      INTEGER MOS(12),MONTH,DAY,YEAR
      DATA MOS/31,0,31,30,31,30,31,31,30,31,30,31/
      IDATE=0
      DO 10 YEAR=1,99
      NDAYY=365
      IF (YEAR/4*4 .EQ. YEAR) NDAYY=366
      IDATE=IDATE+NDAYY
      IF (IDATE .GE. IDAYN) GO TO 20
   10 CONTINUE
   20 IDATE=IDATE-NDAYY
      MOS(2)=28
      IF (YEAR/4*4 .EQ. YEAR) MOS(2)=29
      DO 30 MONTH=1,12
      IDATE=IDATE+MOS(MONTH)
      IF (IDATE .GE. IDAYN) GO TO 40
   30 CONTINUE
   40 NDAYM=MOS(MONTH)
      IDATE=IDATE-NDAYM
      DO 50 DAY=1,NDAYM
      IDATE=IDATE+1
      IF (IDATE .GE. IDAYN) RETURN
   50 CONTINUE
      RETURN
      END
C
C
C           ***** SUBROUTINE SHELL *****
C
C     SHELL SORT
C     REFERENCES..
C         D.A.SHELL, CACM, VOL 2 (1959), PP 30..32
C         T.N. HIBBERD, SDC REPORT SP-982
C         J.ROOTHROYD, CACM, ALGORITHM 201
C     THIS IS A FORTRAN VERSION OF ALGORITHM 201.
      SUBROUTINE SHELL (IA,N,NROW,NCOL,JK,ID)
C     IA=INPUT ARRAY TO BE ARRANGED
C     N=NUMBER OF ELEMENTS (FILLED ROWS) IN IA
C     NROW=NUMBER OF ROWS IN IA
C     NCOL=NUMBER OF COLUMNS IN IA
C     JK=ARRAY CONTAINING HIERARCHY OF COLUMNS TO DETERMINE
```

```
C              FINAL ARRANGEMENT OF IA (JK(LAST+1)=0)
C     ID=ARRAY IN 1 OT 1 CORRESPONDANCE WITH JK TO DETERMINE DIRECTION OF
C             SORT.  ID=1...ASCENDING
C                    ID=2...DESCENDING
      DIMENSION IA(1),ID(1),JK(1)
      INTEGER ITES1*4,ITES2*4
C     FIND M=ONE LESS THAN LEAST POWER OF 2.GT.N
      M=0
   10 M=M+M+1
      IF (M-N) 10,20,20
C  20 OUTER LOOP. .HALVE M.
   20 M=M/2
C     TEST FOR END OF OUTER LOOP.
      IF (M) 70,70,30
C  30 FIND LIMIT FOR MIDDLE LOOP
   30 K=N-M
C     BEGIN MIDDLE LOOP
      DO 60 J=1,K
C     SETUP FOR INNER LOOP
      I=J
C  40 MIDDLE AND INNER LOOP . . COMPARE.
   40 L=I+M
      LJ=1
   23 IAD=NROW*(JK(LJ)-1)
      L1=L+IAD
      I1=I+IAD
      IDEC=ID(LJ)
      ITES2=IA(L1)
      ITES1=IA(I1)
      GO TO (21,22),IDEC
   21 IF (ITES1-ITES2) 60,61,50
   22 IF (ITES1-ITES2) 50,61,60
   61 LJ=LJ+1
      IF (JK(LJ)) 60,60,23
C  50 NOT IN SEQUENCE. SO SWAP
   50 DO 80 IP=1,NCOL
      NROCO=NROW*(IP-1)
      NI=NROCO+I
      NL=NROCO+L
      ITEMP=IA(NI)
      IA(NI)=IA(NL)
   80 IA(NL)=ITEMP
C     GO DOWN INNER LOOP . . ONLY IF SWAP
      I=I-M
C     TEST FOR END OF INNER LOOP
      IF (I) 60,60,40
C  60 END OF INNER AND MIDDLE LOOP.
   60 CONTINUE
      GO TO 20
C  70 SORT COMPLETE
   70 RETURN
      END
C
C
C              ***** SUBROUTINE SHELR *****
C
C     SHELL SORT
```

```
C     REFERENCES..
C         D.A.SHELL, CACM, VOL 2 (1959), PP 30..32
C         T.N. HIBBERD, SOC REPORT SP-982
C         J.ROOTHROYD, CACM, ALGORITHM 201
C     THIS IS A FORTRAN VERSION OF ALGORITHM 201.
      SUBROUTINE SHELR ( A,N,NROW,NCOL,JK,ID)
C      A=INPUT ARRAY TO BE ARRANGED
C     N=NUMBER OF ELEMENTS (FILLED ROWS) IN  A
C     NROW=NUMBER OF ROWS IN  A
C     NCOL=NUMBER OF COLUMNS IN  A
C     JK=ARRAY CONTAINING HIERARCHY OF COLUMNS TO DETERMINE
C               FINAL ARRANGEMENT OF  A (JK(LAST+1)=0)
C     ID=ARRAY IN 1 OT 1 CORRESPONDANCE WITH JK TO DETERMINE DIRECTION OF
C             SORT.  ID=1...ASCENDING
C                    ID=2...DESCENDING
      DIMENSION  A(1),ID(1),JK(1)
C     FIND M=ONE LESS THAN LEAST POWER OF 2.GT.N
      M=0
   10 M=M+M+1
      IF (M-N) 10,20,20
C  20 OUTER LOOP. .HALVE M.
   20 M=M/2
C     TEST FOR END OF OUTER LOOP.
      IF (M) 70,70,30
C  30 FIND LIMIT FOR MIDDLE LOOP
   30 K=N-M
C     BEGIN MIDDLE LOOP
      DO 60 J=1,K
C     SETUP FOR INNER LOOP
      I=J
C  40 MIDDLE AND INNER LOOP . . COMPARE.
   40 L=I+M
      LJ=1
   23 IAD=NROW*(JK(LJ)-1)
      L1=L+IAD
      I1=I+IAD
      IDEC=ID(LJ)
      GO TO (21,22),IDEC
   21 IF ( A(I1)- A(L1)) 60,61,50
   22 IF ( A(I1)- A(L1)) 50,61,60
   61 LJ=LJ+1
      IF (JK(LJ)) 60,60,23
C  50 NOT IN SEQUENCE. SO SWAP
   50 DO 80 IP=1,NCOL
      NROCO=NROW*(IP-1)
      NI=NROCO+I
      NL=NROCO+L
       TEMP= A(NI)
       A(NI)= A(NL)
   80  A(NL)= TEMP
C     GO DOWN INNER LOOP . . ONLY IF SWAP
      I=I-M
C     TEST FOR END OF INNER LOOP
      IF (I) 60,60,40
C  60 END OF INNER AND MIDDLE LOOP.
   60 CONTINUE
      GO TO 20
```

```
C   70 SORT COMPLETE
    70 RETURN
       END
C
C
C              ***** FUNCTION IDATE *****
C
       FUNCTION IDATE(IDAY,MONTH,IYEAR)
       IDATE=IDAY
       JYEAR=IYEAR-1
       DO 300 I=1901,JYEAR
       IF((I/4;*4-I)100,200,100
  100  IDATE=IDATE+365
       GO TO 300
  200  IDATE=IDATE+366
  300  CONTINUE
       IF((IYEAR/4)*4-IYEAR)400,500,400
  400  IFEB=28
       GO TO 600
  500  IFEB=29
  600  GO TO (1,2,3,4,5,6,7,8,9,10,11,12),MONTH
   12  IDATE=IDATE+30
   11  IDATE=IDATE+31
   10  IDATE=IDATE+30
    9  IDATE=IDATE+31
    8  IDATE=IDATE+31
    7  IDATE=IDATE+30
    6  IDATE=IDATE+31
    5  IDATE=IDATE+30
    4  IDATE=IDATE+31
    3  IDATE=IDATE+IFEB
    2  IDATE=IDATE+31
    1  RETURN
       END
C
C
C              ***** SUBROUTINE SETIA *****
C
       SUBROUTINE SETIA (IARAY,NROW,NCOL,IVALU)
C              SET INTEGER ARRAY DIMENSIONED  NROW X NCOL  TO  IVALU
       INTEGER IARAY(1)
       NELEM=NROW*NCOL
       DO 10 I=1,NELEM
       IARAY(I)=IVALU
    10 CONTINUE
       RETURN
       END
C
C
C              ***** PROGRAM SYNOP *****
C
C
C
C              NOTE THAT ALL SOURCE CARDS DENOTED BY A '*' IN COLUMN 73
C                   ARE NEEDED TO ACCESS THE DSC/META 4 TAPE DRIVE AND
C                   SHOULD EITHER BE REPLACED OR ELIMINATED.  SUGGESTED
C                   REPLACEMENT STATEMENTS ASSUME THAT  99  IS SPECIFIED
```

```
C                 AS THE TAPE DEVICE CODE.
C
C
C
C
      INTEGER JK4(2)
      INTEGER JK3(2)
      INTEGER NSPAC(2),BLANK
      INTEGER ISTA(3),KEY(3400,3),JK1(3),JK2(3)
      INTEGER TITLE(5,4),NABRK(3,2)
      INTEGER ICOUN(13,22)
      INTEGER ICAR1(49)
      INTEGER YEAR,MONTH,DAY,CARD,RAIN(12),STA(6),PREST(6)
      INTEGER INPHR(366,27),DRY,WET,PRCON,STORM,MSTRM,DSTRM,YSTRM,HSTRM
      INTEGER DURAT,STMDF,OURLS,COND
      INTEGER IBUF(400)
      INTEGER ISAVE(9)
      INTEGER ISYM(100),TAPEN(3)
      INTEGER ANDGT
      REAL PLOT(60,3)
      REAL XVALU(3500,2)
      REAL Y2MAX(4)
      REAL X(30),Y(30,8),XMAX(2),XMIN(2),YMAX(4)
      REAL INTEN
      REAL RESVD(4),STAT(4,9)
      EQUIVALENCE (KEY(1,1),INPHR(1,1))
      EQUIVALENCE (XVALU(1,1),KEY(2,1))
      DATA JK1/1,3,0/,JK2/1,1,0/
      DATA JK3/2,0/
      DATA JK4/1,0/
      DATA DRY/2/,WET/1/
      DATA IAST/'**'/
      DATA XMIN/0.,40./,XMAX/12.,80./,NSPAC/60,80/,BLANK/'  '/
      DATA NABRK/' MONTH  YEAR'/
      DATA TITLE/'DURATION  INTENSITY VOLUME    DELTA     '/
      DATA ANDGT/Z5D6E/
      DEFINE FILE 89(10,40,U,LOC89)
      DEFINE FILE 98(12000,40,E,LOC98)
      DEFINE FILE 99(10,80,E,LOC99)
      IN=8
      IO=5
      ITYP=1
C
C           START TAPE AT SPECIFIED STATION
C
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
      LOC99=11                                                          *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C
C           READ CONTROL CARD
C     ISTA=STATION NUMBER
C     IRQYR=LAST 2 DIGITS OF YEAR TO BEGIN ANALYSIS.  IF OMITTED, THEN
C          BEGIN AT FIRST HOURL RAINFALL RECORD
C     IRWD=CODE TO REWIND TAPE BEFORE SEARCH...0=DON'T REWIND, 1=REWIND
C     STMDF=NUMBER OF CONSECTIVE DRY HOURS THAT DEFINE THE END OF THE
C          STORM
C     ISKIP=CODE TO SKIP PRINTING OF HOURLY RAINFALL DATA.  0=PRINT,
```

```
C           1=DON'T PRINT
C      IPAUS=CODE TO PAUSE AFTER THIS STATION OR TAPE HAS BEEN READ.
C           0=END OF STATION AFTER THIS READ OF TAPE, 1=PAUSE-CONTINUE
C           STATION ON NEXT FILE OR NEXT TAPE.
C      IDISM=CODE TO REWIND (DISMOUNT) TAPE AFTER STATION OR TAPE HAS
C           BEEN READ.  0=DON'T REWIND, 1=REWIND
C      ICNST=CODE THAT INDICATES THAT STATION IS BEING CONTINUED FROM A
C           PREVIOUS TAPE OR FILE.  0=NEW STATION-START HERE, 1=CONTINUE
C      TAPEN=NUMBER OF NEXT TAPE TO BE MOUNTED.
    1 READ (IN,1020,END=999)ISTA,IRQYR,IRWD,STMOF,ISKIP,IPAUS,IDISM,
     .                      ICNST,TAPEN
C
C     *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
      CALL ENDGO                                                  *
      GO TO 1
C     *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
C
C           CHECK FOR REWINDING TAPE
C
C     *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
 9998 IF (IRWD .EQ. 1) CALL MAGTA(3,0)                            *
      IRC01=1                                                     *
      IF (IRWD .EQ. 1  .OR.  LOC99 .GT. 10) GO TO 2               *
      READ (89'1) IBUF                                            *
      IRC01=LOC99                                                 *
      GO TO 510                                                   *
C           READ A BLOCK OF TAPE                                  *
    2 CALL MAGTA (0,0,400,IBUF(2))                                *
C           CONVERT TO IBM 1130                                   *
      CALL EXELM (400,IBUF)                                       *
  510 DO 4 I=IRC01,10                                             *
      K=40*(I-1)                                                  *
C     *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
C           REPLACE BY
C     IF (IRWD .EQ. 1) REWIND 99
C   2 READ (99,1030,END=1) (IBUF(J),J=1,4)
C1030 FORMAT (4A2)
C     K=0
C
      CALL DATSW(0,ISW0)
      IF (ISW0 .EQ. 1) GO TO 210
C           CHECK FIRST 6 CHARACTERS OF EACH RECORD FOR DESIRED
C           STATION
        DO 3 J=1,3
        K=K+1
        IF(IBUF(K) .NE. ISTA(J)) GO TO 4
    3   CONTINUE
C           IF REQUESTED YEAR EXISTS, CHECK THAT IT MATCHES
      IF (IRQYR .NE. BLANK  .AND.  IRQYR .NE. IBUF(4)) GO TO 4
C           DESIRED STATION FOUND
C
C     *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
      WRITE (89'1) IBUF                                           *
      CALL DEOF                                                   *
      LOC99=I                                                     *
C     *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *  *
C           REPLACE BY
```

```
C      BACKSPACE 99
C
       GO TO 5
     4 CONTINUE
       IRC01=1
       GO TO 2
     5 CONTINUE
C
C      *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C              SET UP FOR END-OF-TAPE MARKER                                 *
       CALL ENDGO                                                           *
       GO TO 200                                                            *
  9999 CONTINUE                                                             *
C      *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C
C              RESET INITIAL CONDITIONS FOR NEW STATION
       IF (ICNST .EQ. 1) GO TO 8
       LOC98=1
       DURLS=0
       COND=DRY
       NDRY=0
       NDRHR=0
       VOLUM=0
       DURAT=0
       STORM=0
       NOYRS=0
     8 CONTINUE
       ILSTC=2
C              READ STATION NUMBER AND YEAR FROM NEXT RECORD
C
C      *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
       READ (99'LOC99,1000) STA,NEWYR                                       *
       LOC99=LOC99-1                                                        *
C      *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C              REPLACE BY
C      READ(99,1000,END=200)STA,NEWYR
C      BACKSPACE 99
C
       NEWYR=NEWYR+1900
       DO 6 I=1,6
       PREST(I)=STA(I)
     6 CONTINUE
C              CLEAR THIS YEAR'S MATRIX
     7 CONTINUE
       CALL SETIA(INPHR,366,27,0)
C              COMPUTE STARTING DAY NUMBER FOR THIS YEAR
       IDAST=IDATE(0,1,NEWYR)
       WRITE (IO,2040)
       IPRN=0
    10 CONTINUE
C
C      *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C              CHECK IF NEXT BLOCK OF TAPE IS TO BE READ                     *
       IF (LOC99 .LE. 10) GO TO 11                                          *
C              READ A BLOCK OF TAPE                                          *
       CALL MAGTA (0,0,400,IBUF(2))                                         *
C              CONVERT TO IBM 1130 ARRAY CONVENTION                          *
```

```
      CALL EXELM (400,IBUF)                                                 *
      WRITE (89'1) IBUF                                                     *
      CALL DEOF                                                             *
      LOC99=1                                                               *
C             EACH BLOCK OF TAPE CONTAINS 10 RECORDS                        *
   11 CONTINUE                                                              *
      READ (99'LOC99,1000,END=200,ERR=30)STA,YEAR,MONTH,DAY,CARD,RAIN,      *
     *                                   IYRA2,IMOA2,IDYA2                *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   * *
C             REPLACE ABOVE BY
C     READ (99,1000,END=200,ERR=30)STA,YEAR,MONTH,DAY,CARD,RAIN,
C    *                             IYRA2,IMOA2,IDYA2
C
      REREAD 1010,ICAR1
C
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   * *
C             SWITCH 0 UP WILL CAUSE PROGRAM TO BRANCH TO END OF STATION*
C                ROUTINE                                                  *
      CALL DATSW(0,ISW0)                                                    *
      IF (ISW0 .EQ. 1) GO TO 210                                            *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   * *
C
      IF (CARD .NE. 1  .AND.  CARD .NE. 2) GO TO 30
C             CHECK FOR 2 CONSECTIVE CARD 1'S OR 2'S
      IF (CARD .NE. ILSTC) GO TO 14
C             PRINT LAST RECORD IF TWO CONSECUTIVE CARD 1
      IF (CARD .EQ. 1) WRITE (IO,2000) ISAVE,(INPHR(IDAY,I),I=1,24),IAST
C             PRINT AN ASTERISK IF 2 CONSECUTIVE CARD 2'S
      IF (CARD .EQ. 2) WRITE (IO,2200) IAST
C        CHECK FOR SAME STATION
   14 DO 16 I=1,6
      IF (STA(I) .NE. PREST(I)) GO TO 17
   16 CONTINUE
C             SAME STATION
      GO TO 19
C             NEW STATION-COMPUTE THE SYNOPTIC DATA FILE FOR THE YEAR
C                  JUST CONCLUDED
   17 IALT=1
      GO TO 40
C             CHECK FOR SAME YEAR
   19 YEAR=YEAR+1900
      IF (YEAR .LT. NEWYR) GO TO 30
C             A NEW YEAR SIGNALS ALTERNATIVE 2
C
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   * *
      IF (YEAR .NE. NEWYR) LOC99=LOC99-1                                    *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   * *
C             REPLACE ABOVE BY
C     IF (YEAR .NE. NEWYR) BACKSPACE 99
C
      IF (YEAR .NE. NEWYR) IALT=2
      IF (YEAR .NE. NEWYR) GO TO 40
      ILSTC=CARD
C     ADD TO THIS YEAR'S MATRIX.  FIND DAY NUMBER
      IDAY=IDATE(DAY,MONTH,YEAR)-IDAST
      YEAR=YEAR-1900
      IHR=(CARD-1)*12
```

```
      DO 20 I=1,12
      IHR=IHR+1
      INPHR(IDAY,IHR)=RAIN(I)
   20 CONTINUE
      INPHR(IDAY,25)=IMOA2
      INPHR(IDAY,26)=IDYA2
      INPHR(IDAY,27)=IYRA2
      IPRN=1
      ISAVE(7)=MONTH
      ISAVE(8)=DAY
      ISAVE(9)=YEAR
      DO 25 I=1,6
      ISAVE(I)=STA(I)
   25 CONTINUE
C               ONLY PRINT WHEN SECOND CARD IS READ
      IF (CARD .EQ. 1) GO TO 10
      IF (ISKIP .EQ. 0)
     .     WRITE (IO,2000) STA,MONTH,DAY,YEAR,(INPHR(IDAY,I),I=1,24)
      IPRN=0
      GO TO 10
   30 WRITE (IO,2060) ICAR1
C               FORMAT ERROR OR ILLEGAL CARD CODE-JUST PRINT CARD
      GO TO 10
C
C               END OF YEAR OR END OF FILE-COMPUTE SYNOPTIC DATA
C
   40 WRITE (IO,2030)
C               SAVE LAST STORM NUMBER AND PRESENT FILE NUMBER
      NOLDS=STORM
      LOLD9=LOC9A
      NDRSA=NDRY
C               FIND NUMBER OF DAYS IN THIS YEAR
      NDAYR=IDATE(1,1,NEWYR+1)-IDATE(1,1,NEWYR)
      CALL SETIA (ICOUN,13,22,0)
      NOYRS=NOYRS+1
      DO 100 J=1,NDAYR
      IDAYN=IDATE(1,1,NEWYR)+J-1
      CALL DAIDA (IDAYN,IROW,IDY1,IY1)
      IROW=IROW
      DO 90 K=1,24
      IF (INPHR(J,K) .EQ. 0) NCATG=1
      IF (INPHR(J,K) .NE. 0) NCATG=(INPHR(J,K)-1)/1+2
      IF (NCATG .GT. 20) NCATG=21
      ICOUN(IROW,NCATG)=ICOUN(IROW,NCATG)+1
C               PRESENT CONDITION IS DETERMINED IF ANY PRECIPITATION IS
C               RECORDED FOR THIS HOUR
      PRCON=2
      IF (INPHR(J,K) .GT. 0) PRCON=1
C               PREVIOUS CONDITION AND PRESENT CONDITION DETERMINE CURRENT
C               STATUS
      NEXT=(COND-1)*2+PRCON
C               PRCON  AND  COND  CAN BE EITHER 1 OR 2.  THUS  NEXT
C               WHICH DEFINES THE CURRENT STATUS CAN BE EITHER 1,2,3, OR 4
C               AS INDICATED IN THE FOLLOWING TABLE
C
C                              PREVIOUS CONDITION
C                                 WET       DRY
```

```
C                                (COND=1)  (COND=2)
C     PRESENT        WET
C     CONDITION  (PRCON=1)      1         3
C
C                    DRY         2         4
C                 (PRCON=2)
C
      GO TO (50,60,70,80),NEXT
C             CONTINUE STORM (NEXT=1)
   50 DURAT=DURAT+1+NDRHR
      NDRHR=0
      VOLUM=VOLUM+INPHR(J,K)*0.01
      GO TO 90
C             DRY PERIOD (NEXT=2)-CHECK IF NOL OF CONSECUTIVE DRY HOURS
C             IS SUFFICIENT TO BE CONSIDERED AS END OF STORM
   60 NDRHR=NDRHR+1
      IF (NDRHR .LT. STMDF) GO TO 90
C             END OF STORM
      STORM=STORM+1
C             FOR FIRST STORM ON FILE ASSUME DURATION OF LAST STORM TO
C             BE THE SAME AS THE FIRST STORM
      IF (STORM .EQ. 1) DURLS=DURAT
      DELTA=0.5*(DURAT+DURLS)-FLOAT(NDRY)
      IF (STORM .EQ. 1) DELTA=0.
      VOLUM=VOLUM+0.000005
      INTEN=VOLUM/FLOAT(DURAT)
      WRITE (98'LOC98,2010) PREST,MSTRM,DSTRM,YSTRM,HSTRM,DURAT,INTEN,
     *                      VOLUM,DELTA
      WRITE (IO,2020) PREST,STORM,MSTRM,DSTRM,YSTRM,HSTRM,DURAT,INTEN,
     *                      VOLUM,DELTA.
      NDRY=NDRHR
      NDRHR=0
      COND=DRY
      DURLS=DURAT
      GO TO 90
C             BEGINNING OF STORM  (NEXT=3)
   70 MSTRM=INPHR(J,25)
      DSTRM=INPHR(J,26)
      YSTRM=INPHR(J,27)
      HSTRM=K
      DURAT=1
      VOLUM=INPHR(J,K)*.01
      NDRHR=0
      COND=WET
      GO TO 90
C             CONTINUATION OF DRY WEATHER (NEXT=4)
   80 NDRY=NDRY+1
   90 CONTINUE
  100 CONTINUE
      WRITE (IO,2210) (I,I=1,20),ANDGT
      ISUM=0
      DO 9134 I=1,12
      DO 9134 J=1,21
      ICOUN(13,J)=ICOUN(13,J)+ICOUN(I,J)
      ICOUN(I,22)=ICOUN(I,22)+ICOUN(I,J)
      ISUM=ISUM+ICOUN(I,J)
 9134 CONTINUE
```

```
      DO 9135 I=1,12
      WRITE (IO,2220)(ICOUN(I,J),J=1,22),I
 9135 CONTINUE
      WRITE (IO,2220)(ICOUN(13,J),J=1,21)
      WRITE (IO,2135) ISUM
C             UPDATE FOR NEXT YEAR
      NEWYR=NEWYR+1
C             REVERT TO SAVED STORM AND RECORD NUMBER IF LESS THAN 2
C                   STORMS
      IF (STORM-NOLDS .GE. 2) GO TO 105
      NDAY=NDAYSA
      STORM=NOLDS
      LOC9R=LOLD9
C             SUBTRACT NUMBER OF YEARS FOR RETURN PERIOD
      NOYRS=NOYRS-1
  105 CONTINUE
C             CHECK WHICH ALTERNATIVE HAS BEEN SELECTED
C             ALTERNATE 1=END OF STATION OR END OF TAPE MARKER
C             ALTERNATE 2=END OF YEAR ONLY
      GO TO (110,7),IALT
C             CHECK FOR DISMOUNTING PRESENT TAPE
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
  110 IF (IDISM .EQ. 1) CALL MAGTA(6,0)                                  *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C             REPLACE ABOVE BY
C 110 IF (IDISM .EQ. 1) REWIND 99
C
C
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C             SWITCH 0 UP WILL CAUSE PROGRAM TO BRANCH TO END OF STATION*
C                   ROUTINE                                             *
      CALL DATSW(0,ISW0)                                                *
      IF (ISW0 .EQ. 1) GO TO 210                                        *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C
C             CHECK FOR PAUSING FOR NEXT TAPE
      IF (IPAUS .EQ. 0) GO TO 210
      WRITE (ITYP,2190) TAPEN
      PAUSE 1111
      GO TO 1
C             REWIND TAPE AND GO TO SUMMARY
C
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
  200 CALL MAGTA (6,0)                                                  *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *
C             REPLACE ABOVE BY
C 200 REWIND 99
C
      IALT=1
      GO TO 40
C             READ SYNOPTIC FILE KEY FIELDS (MONTH AND YEAR)
C             WRITE EOF ON DISK
  210 WRITE (98'LOC98,2050)
      LOC98=1
      I=1
  220 READ (98'LOC98,1040,END=230)(KEY(I,J),J=1,2)
      KEY(I,3)=I
```

```
      I=I+1
      GO TO 220
  230 NREC=I-1
C             FOR EACH KEY, OBTAIN STATISTICS
      DO 400 ICOL=1,2
      JK1(1)=ICOL
      CALL SHELL (KEY,NREC,3800,3,JK1,JK2)
      WRITE (IO,2070)((NABRK(J,ICOL),J=1,3),I=1,2)
      KEYV=KEY(1,ICOL)
      NREC1=NREC+1
      IC=0
      DO 235 J=1,4
      YMAX(J)=0.
      Y2MAX(J)=0.
  235 CONTINUE
      DO 300 J=1,NREC1
      IF (J .EQ. 1) GO TO 260
      IF (J .EQ. NREC1) GO TO 240
C             CHECK FOR CHANGE IN KEY
      IF (KEY(J,ICOL) .EQ. KEYV) GO TO 280
C             BREAK OCCURED
  240 IC=IC+1
      K(IC)=FLOAT(KEYV)
      DO 250 I=1,4
      STAT(I,5)=STAT(I,2)/STAT(I,1)
      STAT(I,6)=SQRT(ABS((STAT(I,6)-STAT(I,2)**2/STAT(I,1))/(STAT(I,1)-
     *          1.0)))
      STAT(I,7)=STAT(I,6)**2
      STAT(I,8)=STAT(I,6)/STAT(I,5)
C             SAVE MEAN AND STD DEV FOR EACH VARIABLE FOR PLOTTING
      ICNO=(I-1)*2+1
      Y(IC,ICNO)=STAT(I,5)
      Y(IC,ICNO+1)=STAT(I,6)
      IF (STAT(I,5) .GT. YMAX(I)) YMAX(I)=STAT(I,5)
      IF (STAT(I,6) .GT. YMAX(I)) YMAX(I)=STAT(I,6)
      IF (STAT(I,4) .GT. Y2MAX(I)) Y2MAX(I)=STAT(I,4)
  250 CONTINUE
      WRITE (IO,2130) KEYV
      DO 255 I=1,4
      WRITE (IO,2080) (TITLE(M,I),M=1,5),(STAT(I,M),M=1,8)
  255 CONTINUE
      KEYV=KEY(J,ICOL)
      IF (J .EQ. NREC1) GO TO 300
  260 DO 270 I=1,4
      STAT(I,1)=0.
      STAT(I,2)=0.
      STAT(I,3)= 1.0E38
      STAT(I,4)=-1.0E38
      STAT(I,6)=0.
  270 CONTINUE
  280 IREC=KEY(J,3)
      READ (99'IREC,2110)RESVD
      DO 290 I=1,4
      DATA=RESVD(I)
      STAT(I,1)=STAT(I,1)+1.
      STAT(I,2)=STAT(I,2)+DATA
      IF (DATA .LT. STAT(I,3)) STAT(I,3)=DATA
```

```
      IF (DATA .GT. STAT(I,4)) STAT(I,4)=DATA
      STAT(I,6)=STAT(I,6)+DATA*DATA
  290 CONTINUE
  300 CONTINUE
      WRITE (IO,2090)((NABRK(J,ICOL),J=1,3),I=1,2)
      DO 310 I=1,IC
      WRITE (IO,2120) X(I),(Y(I,J),J=1,8)
  310 CONTINUE
      YMIN=0.
      DO 320 L=1,4
      I=(L-1)*2+1
      DO 315 J=1,IC
      K=J*2-1
      PLOT(K,1)=X(J)
      PLOT(K,2)=Y(J,I)
      PLOT(K,3)=11.
      PLOT(K+1,1)=X(J)
      PLOT(K+1,2)=Y(J,I+1)
      PLOT(K+1,3)=29.
  315 CONTINUE
      NTOT=2*IC
      CALL SHELR(PLOT,NTOT,60,3,JK3,JK3)
      DO 318 J=1,NTOT
      ISYM(J)=IFIX(PLOT(J,3)+0.5)
  318 CONTINUE
      CALL COAD2(PLOT(1,1),PLOT(1,2),XMAX(ICOL),XMIN(ICOL),YMAX(L),YMIN,
     *           NTOT,1,50,NSPAC(ICOL),0,0,0,ISYM)
      WRITE (IO,2100) (TITLE(M,L),M=1,5),(NABRK(M,ICOL),M=1,3)
  320 CONTINUE
  400 CONTINUE
      DO 500 IVAR=1,4
      LOC98=1
      K=1
C             READ VARIABLE
  410 READ (98'LOC98,1050,END=420)(X(J),J=1,4)
      XVALU(K,1)=X(IVAR)
      K=K+1
      GO TO 410
  420 NOCCU=K-1
C             SORT BY VALUE
      CALL SHELR (XVALU,NOCCU,3500,1,JK4,JK4)
      WRITE (IO,2140)((TITLE(J,IVAR),J=1,5),I=1,2)
C             COMPUTE 'PLOTTING POSITION'
      DO 430 I=1,NOCCU
      XVALU(I,2)=FLOAT(I)/FLOAT(NOCCU)*100.
  430 CONTINUE
      WRITE (IO,2150)((XVALU (I,J),J=1,2),I=1,NOCCU)
C             PLOT RESULTS
C             SORT FIRST COLUMN REVERSED
      CALL SHELR(XVALU,NOCCU,3500,2,JK4,JK3)
      CALL COAD2(XVALU(1,2),XVALU(1,1),100.,0.,Y2MAX(IVAR),0.,NOCCU,1,
     *           50,100,0,2,0,ISYM)
      WRITE (IO,2100) (TITLE(J,IVAR),J=1,5)
      WRITE (IO,2160)
C             COMPUTE RECURRANCE INTERVAL
      DO 440 I=1,NOCCU
      XVALU(I,2)=FLOAT(NOYRS)/FLOAT(I)
```

```
  440 CONTINUE
      WRITE (IO,2170)(TITLE(J,IVAR),J=1,5)
      WRITE (IO,2150)((XVALU (I,J),J=1,2),I=1,NOCCU)
      X2MAX=FLOAT(NOYRS)
C             PLOT RESULTS
      CALL COAD2(XVALU(1,2),XVALU(1,1),X2MAX,0.,Y2MAX(IVAR),0.,NOCCU,1,
     .           50,100,0,2,0,ISYM)
      WRITE (IO,2100) (TITLE(J,IVAR),J=1,5)
      WRITE (IO,2130)
  500 CONTINUE
      GO TO 1
  999 CALL EXIT
 1000 FORMAT (6A1,3I2,I1,12I3,T7,3A2)
 1010 FORMAT (49A1)
 1020 FORMAT (4A2,1X,I1,5I5,3A2)
C
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   * *
 1030 FORMAT (6A1,3I2)                                                   *
C     *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   *   * *
C
 1040 FORMAT (12X,I2,4X,I2)
 1050 FORMAT (25X,F5.0,3F10.0)
 2000 FORMAT (3X,6A1,1X,2(I2,'/'),I2,5X,24I4,2X,A2)
 2010 FORMAT (4X,6A1,2X,2(A2,'/'),A2,2I5,F10.6,F10.2,F10.1)
 2020 FORMAT (3X,6A1,2X,I5,2X,2(A2,'/'),A2,2I6,F12.6,F10.2,F12.1)
 2030 FORMAT (1H1,20X,'STORM EVENT SUMMARY'/
     .          ' STATION  STORM       DATE  HOUR DURAT   INTENSITY
     .VOLUME       DELTA'/
     .          '                NO                    HOURS   INCHES/HR
     .INCHES       HOURS'/)
 2040 FORMAT (1H1,42X,'HYDROSCIENCE RAINFALL ANALYSIS PROGRAM'//
     .          50X,'HOURLY PRECIPITATION-HUNDREDTHS OF AN INCH'/
     .          ' STATION     DATE          1   2   3   4   5   6   7
     .8   9  10  11  12  13  14  15  16  17  18  19  20  21  22  23  24,
     ./)
 2050 FORMAT ('/*')
 2060 FORMAT (' * ',49A1,20X,'BAD DATA IN RECORD')
 2070 FORMAT (1H1,35X,'RAINFALL STATISTICS BY ',3A2,'(FOR PERIOD OF RECO
     .RD)'/1X,3A2,
     .          11X,'NUMBER',9X,'TOTAL',7X,'MINIMUM',7X,'MAXIMUM',
     .           7X,'AVERAGE',7X,'STD DEV',6X,'VARIANCE',6X,'COEF-VAR')
 2080 FORMAT (8X,5A2,F6.0,7E14.6)
 2090 FORMAT (1H1,12X,'SUMMARY OF RAINFALL STATISTICS BY ',3A2,'(FOR PER
     .IOD OF RECORD)'/
     .           1X,3A2,     5X,'DURATION',12X,'INTENSITY',12X,'VOLUME',15X
     .,'DELTA'/6X       ,4('   AVERAGE    STD DEV'))
 2100 FORMAT (40X,5A2,' VS',3A2,20X,'A=AVERAGE, S=STD. DEV.')
 2110 FORMAT (25X,F5.0,3F10.0)
 2120 FORMAT (1X,F5.0,2F10.2,2F10.4,2F10.2,2F10.0)
 2130 FORMAT (1X,I6)
 2135 FORMAT (/' TOTAL HOURS FOR THE YEAR = ',I6)
 2140 FORMAT (1H1,49X,'PROBABILITY ANALYSIS-',5A2//
     .          27X,'PERCENTAGE OF OCCURRENCE LESS THAN OR EQUAL TO TH
     .E GIVEN VALUE OF ',5A2///1X,8(3X,'VALUE',5X,'PCT'))
 2150 FORMAT (1X,16F8.3)
 2160 FORMAT (1H+,53X,'PERCENT LESS THAN OR EQUAL TO')
 2170 FORMAT (1H1,45X,'RETURN PERIOD (IN YEARS) FOR ',5A2///1X,8(3X,'VAL
```

```
     .UE',2X,'PERIOD'))
2180 FORMAT (1H+,53X,'RETURN PERIOD IN YEARS')
2190 FORMAT (///' OPERATOR-MOUNT TAPE NO. ',3A2,' AND THEN PRESS START'
     .)
2200 FORMAT (121X,A2)
2210 FORMAT (///34X,'NUMBER OF HOURS OF RAINFALL IN HUNDREDTHS OF AN IN
     .CH'/41X,'INTERVALS BETWEEN 0.00 AND 0.20 INCHES'/' MONTH    0',
     .20I5,4X,'TOTAL'/109X,A2,4X,'HOURS'/115X,'  PER'/115X,'MONTH')
2220 FORMAT (6X,21I5,I9,T2,I5)
     END
```

E.5 Example of Computer Output From Program SYNOP

The example output presented in this section demonstrates the application of program SYNOP for a rainfall analysis of U.S. Weather Bureau station 052220 in Denver, Colorado. This is the same data which is contained in the sample data set transmitted with copies of the program.

The program presents a complete summary of the rainfall history for each year of record. This includes an hourly percipitation history, a summary of each event's statistics, and a histogram of rainfall events for each month of the year. The sample output only presents this analysis for 1948 through 1950, and 1973.

The program then proceeds through a series of statistical summaries of the entire data record. These are:

Aggregate monthly rainfall statistics
Plots of rainfall statistics by month
Annual rainfall statistics
Plots of rainfall statistics by year
Probability analysis of rainfall statistics
Probability density function
Return period analysis

This output will serve as a check on program SYNOP. The program input is that on card 5 and 6 in Table E-1.

HYDROSCIENCE RAINFALL ANALYSIS PROGRAM

STATION	DATE	HOURLY PRECIPAITATION-HUNDREDTHS OF AN INCH																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
052220	8/ 1/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0
052220	8/ 2/48	0	0	0	0	0	0	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0
052220	8/ 9/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0
052220	8/10/48	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
052220	8/19/48	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
052220	8/21/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0
052220	8/24/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
052220	8/25/48	0	1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	9/ 1/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	9/19/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	0	3	0	0	0	0
052220	9/30/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0
052220	10/ 1/48	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	10/ 5/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
052220	10/16/48	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	1	0	0	0	1	0	0	0
052220	10/28/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
052220	10/29/48	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	11/ 1/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	11/ 3/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	2
052220	11/ 7/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	3	3	3	3	2
052220	11/ 8/48	1	1	1	1	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	11/10/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	1
052220	11/11/48	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	11/20/48	0	0	0	0	0	0	0	0	2	2	1	0	1	1	1	1	0	0	0	0	0	0	1	1
052220	11/21/48	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/ 1/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/22/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0
052220	12/23/48	0	0	0	0	1	0	0	1	0	1	1	1	1	1	2	2	3	1	1	1	1	1	1	0
052220	12/24/48	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/27/48	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2

STATION	STORM NO	STORM DATE	EVENT HOUR	SUMMARY DURAT HOURS	INTENSITY INCHES/HR	VOLUME INCHES	DELTA HOURS
052220	1	08/01/48	22	2	0.015002	0.03	0.0
052220	2	08/02/48	14	1	0.120004	0.12	15.5
052220	3	08/04/48	15	2	0.010002	0.02	50.5
052220	4	08/10/48	14	2	0.010002	0.02	142.0
052220	5	08/19/48	13	1	0.020005	0.02	214.5
052220	6	08/21/48	18	1	0.130005	0.13	55.0
052220	7	08/24/48	19	1	0.010005	0.01	73.0
052220	8	08/25/48	2	2	0.030002	0.06	7.5
052220	9	09/19/48	18	3	0.133334	0.40	616.5
052220	10	09/30/48	19	2	0.025002	0.05	264.5
052220	11	10/01/48	3	1	0.010005	0.01	7.5
052220	12	10/05/48	19	1	0.010005	0.01	112.0
052220	13	10/16/48	7	11	0.007273	0.08	257.0
052220	14	10/16/48	21	1	0.010005	0.01	9.0
052220	15	10/20/48	24	2	0.025002	0.05	291.5
052220	16	11/03/48	23	2	0.060002	0.12	143.0
052220	17	11/07/48	16	14	0.018571	0.26	95.0
052220	18	11/08/48	9	3	0.006668	0.02	11.5
052220	19	11/10/48	21	6	0.011667	0.07	61.5
052220	20	11/20/48	9	8	0.011250	0.09	229.0
052220	21	11/20/48	23	8	0.011250	0.09	14.0
052220	22	12/22/48	21	2	0.010002	0.02	765.0
052220	23	12/23/48	5	23	0.009565	0.22	18.5
052220	24	12/27/48	24	1	0.020005	0.02	104.0

NUMBER OF HOURS OF RAINFALL IN HUNDREDTHS OF AN INCH INTERVALS BETWEEN 0.00 AND 0.20 INCHES

MONTH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 & >	TOTAL HOURS PER MONTH
1	744	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
2	696	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	696
3	744	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
4	720	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
5	744	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
6	720	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
7	744	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
8	732	7	2	0	0	1	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	744
9	716	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	720
10	731	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
11	682	25	10	4	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	720
12	723	17	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
	8696	59	16	7	1	1	0	0	0	0	1	0	1	1	0	0	0	0	0	0	1	

TOTAL HOURS FOR THE YEAR = 8784

HYDROSCIENCE RAINFALL ANALYSIS PROGRAM

STATION	DATE	HOURLY PRECIPAITATION-HUNDREDTHS OF AN INCH																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
052220	1/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	1/ 2/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9	5	5	2	3	3	2	5
052220	1/ 3/49	1	1	1	1	1	1	2	1	1	2	1	1	2	1	1	2	1	1	1	1	1	1	2	0
052220	1/ 4/49	1	2	1	1	1	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
052220	1/ 8/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
052220	1/ 9/49	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	1/23/49	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	1/27/49	0	0	0	0	0	0	0	1	1	1	1	0	0	0	0	0	0	0	1	0	1	1	1	1
052220	1/28/49	1	2	2	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	2/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	2/12/49	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	0	0	0	0
052220	3/ 1/49	2	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/ 5/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	6	7	1	1	3
052220	3/ 6/49	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/ 8/49	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
052220	3/12/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	8	4	0	1	0	0
052220	3/14/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
052220	3/23/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0
052220	3/24/49	5	6	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/25/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	9	0
052220	3/28/49	0	0	0	0	0	0	0	0	1	1	1	2	3	4	5	6	6	5	6	4	2	3	4	5
052220	3/29/49	7	8	9	7	9	1	0	0	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
052220	3/30/49	1	2	4	4	4	4	2	2	2	1	1	0	1	0	0	0	0	0	0	0	0	0	1	9
052220	4/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	4/ 2/49	0	1	0	1	0	0	1	2	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
052220	4/ 3/49	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	4/ 8/49	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0
052220	4/ 9/49	11	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	7	6	7	7	0
052220	4/10/49	0	0	0	2	1	0	0	2	1	4	2	0	0	1	0	0	0	0	0	0	0	0	0	0
052220	4/13/49	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	2	3	5	5
052220	4/14/49	3	1	0	0	1	0	0	0	3	2	2	1	0	1	0	0	0	0	0	0	0	0	0	0
052220	4/20/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
052220	4/21/49	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	4/26/49	0	0	0	0	0	0	0	0	1	7	6	0	0	2	9	1	1	2	1	0	0	0	0	0
052220	4/30/49	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	5/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	5/ 5/49	0	0	1	0	0	0	0	6	4	2	5	5	4	6	3	1	4	5	4	2	1	1	2	3
052220	5/ 6/49	3	2	3	5	11	4	1	4	5	6	1	3	4	10	12	3	3	3	3	2	1	1	2	3
052220	5/ 7/49	2	3	5	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	5/11/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	4	1	1	0	2	18	7	0
052220	5/13/49	0	0	0	0	0	0	2	15	24	15	2	0	0	1	6	2	0	0	0	4	0	0	0	0
052220	5/15/49	0	0	8	1	2	0	0	0	0	0	0	0	0	5	1	1	0	5	1	0	0	0	0	0
052220	5/16/49	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	1	4	0
052220	5/18/49	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	1	1	0	0
052220	5/20/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0
052220	5/21/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0
052220	5/23/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
052220	5/27/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0
052220	5/28/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
052220	6/ 1/49	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
052220	6/ 2/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	5	7
052220	6/ 3/49	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	14	10	27	29	17

052220	6/ 4/49	19	3	5	3	5	8	3	2	6	1	16	1	2	1	0	0	2	6	0	0	1	2	2	2
052220	6/ 5/49	3	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	6/ 6/49	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	10	3	4
052220	6/ 7/49	1	1	0	0	1	0	2	8	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	6/ 8/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	3	2	1	0	0	0	1	0	0
052220	6/12/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	2	2	4	6
052220	6/13/49	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	11	23
052220	6/14/49	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	6/17/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
052220	6/18/49	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
052220	6/23/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	24	1	0	0	0
052220	6/26/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	0	0	0	0	0	0
052220	6/27/49	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	1	1	0	0	0	0	0	0
052220	6/28/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
052220	7/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0	0	0	0
052220	7/ 3/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0
052220	7/ 5/49	0	0	0	0	0	0	0	0	0	0	0	0	0	47	4	0	0	2	0	0	0	0	0	0
052220	7/ 6/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	5	0	0	0
052220	7/ 7/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
052220	7/ 8/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0
052220	7/11/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	20	0	0	0	0	0	0	0	0
052220	7/13/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	0	0	0	0
052220	7/14/49	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0	0
052220	7/18/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1
052220	7/21/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
052220	7/24/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	4	3
052220	7/25/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
052220	7/28/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	5
052220	7/29/49	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	8/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	8/ 3/49	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	8/ 8/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	3	0	0	0	0	0	0
052220	8/ 9/49	0	0	0	0	0	0	0	0	0	0	0	0	0	14	3	0	0	0	0	0	0	0	0	0
052220	8/11/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0
052220	8/12/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
052220	8/13/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	0	0	0	0
052220	8/14/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0
052220	8/17/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
052220	8/19/49	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	8/24/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	12	6	2	0
052220	8/25/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
052220	8/29/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0
052220	9/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	9/ 3/49	0	0	0	0	0	0	0	2	0	0	0	0	0	0	11	1	0	0	0	0	0	0	0	0
052220	9/30/49	0	0	0	0	0	0	0	0	0	9	3	0	1	1	0	0	0	0	0	0	0	0	0	0
052220	10/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	10/ 8/49	0	0	0	0	1	0	0	0	0	0	1	0	1	1	2	2	1	1	1	1	3	2	2	4
052220	10/ 9/49	0	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	11	1	0	0
052220	10/18/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	0	0	0
052220	10/19/49	0	0	0	0	0	0	1	0	1	1	1	0	0	0	1	0	0	4	11	4	7	8	4	1
052220	10/20/49	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	10/29/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	1	1	1	4	1	5	10
052220	10/30/49	4	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	11/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	11/11/49	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/ 1/49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/11/49	4	3	3	3	3	2	3	4	3	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/20/49	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STATION	STORM NO	STORM EVENT SUMMARY DATE	HOUR	DURAT HOURS	INTENSITY INCHES/HR	VOLUME INCHES	DELTA HOURS
052220	25	01/02/49	15	49	0.017347	0.85	139.0
052220	26	01/08/49	23	10	0.010000	0.10	132.5
052220	27	01/23/49	10	1	0.010005	0.01	342.5
052220	28	01/27/49	5	4	0.010001	0.04	95.5
052220	29	01/27/49	19	16	0.010625	0.17	17.0
052220	30	02/12/49	12	2	0.010002	0.02	370.0
052220	31	02/12/49	18	1	0.010005	0.01	5.5
052220	32	03/01/49	1	3	0.026668	0.08	392.0
052220	33	03/05/49	19	7	0.035714	0.25	116.0
052220	34	03/08/49	1	4	0.007501	0.03	52.5
052220	35	03/08/49	20	1	0.010005	0.01	17.5
052220	36	03/12/49	19	5	0.054000	0.27	96.0
052220	37	03/14/49	17	1	0.010005	0.01	45.0
052220	38	03/23/49	21	8	0.025000	0.20	223.5
052220	39	03/25/49	21	3	0.046668	0.14	45.5
052220	40	03/28/49	9	25	0.040400	1.01	71.0
052220	41	03/29/49	19	1	0.010005	0.01	22.0
052220	42	03/30/49	1	13	0.021538	0.29	12.0
052220	43	04/01/49	23	11	0.006364	0.07	69.0
052220	44	04/02/49	13	1	0.010005	0.01	9.0
052220	45	04/03/49	5	3	0.006668	0.02	20.0
052220	46	04/08/49	10	4	0.007501	0.03	122.5
052220	47	04/09/49	23	4	0.057501	0.23	13.0
052220	48	04/09/49	10	1	0.010005	0.01	9.5
052220	49	04/09/49	19	5	0.056000	0.28	11.0
052220	50	04/10/49	4	11	0.011818	0.13	12.0
052220	51	04/13/49	11	1	0.030005	0.03	74.0
052220	52	04/13/49	21	9	0.022222	0.20	14.0
052220	53	04/14/49	9	6	0.015000	0.09	10.5
052220	54	04/20/49	17	1	0.010005	0.01	149.5
052220	55	04/20/49	24	2	0.020002	0.04	7.5
052220	56	04/26/49	9	11	0.027273	0.30	133.5
052220	57	04/30/49	7	1	0.010005	0.01	89.0
052220	58	05/05/49	3	1	0.010005	0.01	116.0
052220	59	05/05/49	8	46	0.037826	1.74	27.5
052220	60	05/11/49	15	9	0.041111	0.37	132.5
052220	61	05/13/49	7	10	0.067000	0.67	40.5
052220	62	05/13/49	20	1	0.040005	0.04	8.5
052220	63	05/15/49	3	3	0.036668	0.11	32.0
052220	64	05/15/49	14	6	0.021667	0.13	12.5
052220	65	05/16/49	13	2	0.010002	0.02	21.0
052220	66	05/16/49	22	2	0.025002	0.05	9.0
052220	67	05/18/49	13	1	0.050005	0.05	38.5
052220	68	05/19/49	21	2	0.010002	0.02	8.5
052220	69	05/20/49	15	2	0.010002	0.02	42.0
052220	70	05/21/49	19	2	0.010002	0.02	28.0
052220	71	05/23/49	17	1	0.030005	0.03	45.5
052220	72	05/27/49	18	1	0.020005	0.02	97.0
052220	73	05/28/49	15	1	0.010005	0.01	21.0
052220	74	06/01/49	12	1	0.010005	0.01	93.0
052220	75	06/02/49	20	7	0.044286	0.31	35.0
052220	76	06/03/49	19	35	0.056000	1.96	37.0
052220	77	06/06/49	7	1	0.010005	0.01	43.0

052220	78	06/06/49	17	1	0.010005	0.01	10.0
052220	79	06/06/49	22	13	0.027692	0.36	11.0
052220	80	06/08/49	15	4	0.037501	0.15	36.5
052220	81	06/08/49	22	1	0.010005	0.01	5.5
052220	82	06/12/49	19	7	0.034286	0.24	96.0
052220	83	06/13/49	15	3	0.006668	0.02	18.0
052220	84	06/13/49	23	3	0.123334	0.37	8.0
052220	85	06/17/49	16	1	0.010005	0.01	88.0
052220	86	06/18/49	14	1	0.010005	0.01	22.0
052220	87	06/23/49	19	3	0.200001	0.60	126.0
052220	88	06/26/49	17	2	0.065002	0.13	69.5
052220	89	06/27/49	12	1	0.040005	0.04	18.5
052220	90	06/27/49	17	2	0.010002	0.02	5.5
052220	91	06/28/49	15	1	0.010005	0.01	21.5
052220	92	07/01/49	16	2	0.035002	0.07	73.5
052220	93	07/03/49	17	1	0.030005	0.03	48.5
052220	94	07/05/49	14	5	0.106000	0.53	47.0
052220	95	07/06/49	17	1	0.020005	0.02	25.0
052220	96	07/06/49	21	1	0.050005	0.05	4.0
052220	97	07/07/49	20	1	0.010005	0.01	23.0
052220	98	07/08/49	17	2	0.010002	0.02	21.5
052220	99	07/11/49	16	1	0.200004	0.20	70.5
052220	100	07/13/49	17	4	0.012501	0.05	50.5
052220	101	07/14/49	3	1	0.010005	0.01	8.5
052220	102	07/14/49	15	2	0.030002	0.06	12.5
052220	103	07/18/49	23	2	0.020002	0.04	104.0
052220	104	07/21/49	16	1	0.010005	0.01	64.5
052220	105	07/24/49	21	4	0.027501	0.11	78.5
052220	106	07/25/49	16	1	0.020005	0.02	17.5
052220	107	07/28/49	13	1	0.010005	0.01	75.0
052220	108	07/28/49	23	5	0.022000	0.11	6.0
052220	109	08/03/49	6	2	0.015002	0.03	125.5
052220	110	08/08/49	17	2	0.105002	0.21	131.0
052220	111	08/09/49	14	2	0.085002	0.17	21.0
052220	112	08/11/49	16	1	0.020005	0.02	49.5
052220	113	08/12/49	23	2	0.010002	0.02	31.5
052220	114	08/13/49	15	1	0.070004	0.07	15.5
052220	115	08/14/49	23	1	0.050005	0.05	32.0
052220	116	08/17/49	15	2	0.020002	0.04	64.5
052220	117	08/19/49	11	1	0.010005	0.01	43.5
052220	118	08/24/49	13	5	0.054000	0.27	130.0
052220	119	08/25/49	17	1	0.010005	0.01	20.0
052220	120	08/29/49	23	1	0.020005	0.02	102.0
052220	121	09/03/49	8	1	0.020005	0.02	105.0
052220	122	09/03/49	15	2	0.060002	0.12	7.5
052220	123	09/30/49	10	5	0.028000	0.14	644.5
052220	124	10/08/49	5	1	0.010005	0.01	185.0
052220	125	10/08/49	11	19	0.013684	0.26	15.0
052220	126	10/09/49	16	1	0.010005	0.01	20.0
052220	127	10/09/49	21	2	0.060002	0.12	5.5
052220	128	10/18/49	19	1	0.140004	0.14	213.5
052220	129	10/19/49	7	5	0.008000	0.04	14.0
052220	130	10/19/49	15	13	0.031538	0.41	12.0
052220	131	10/29/49	16	14	0.026428	0.37	241.5
052220	132	11/11/49	9	1	0.010005	0.01	298.5
052220	133	12/11/49	1	11	0.028182	0.31	717.0
052220	134	12/20/49	5	1	0.010005	0.01	215.0

052220 135 12/20/49 9 1 0.010005 0.01 4.0

NUMBER OF HOURS OF RAINFALL IN HUNDREDTHS OF AN INCH INTERVALS BETWEEN 0.00 AND 0.20 INCHES

MONTH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 & >	TOTAL HOURS PER MONTH
1	669	56	12	2	0	3	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	744
2	669	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	672
3	679	22	9	5	9	6	5	3	2	3	0	0	0	0	1	0	0	0	0	0	0	744
4	665	28	10	5	1	2	2	4	0	2	0	1	0	0	0	0	0	0	0	0	0	720
5	658	26	15	12	10	9	4	1	1	0	2	1	1	0	0	2	0	0	1	0	1	744
6	641	29	13	8	3	3	3	3	2	1	2	3	0	0	1	0	1	1	0	1	5	720
7	711	15	4	6	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	744
8	723	6	6	2	0	1	2	1	0	0	0	0	1	0	1	0	0	0	1	0	0	744
9	713	3	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	720
10	695	28	6	2	6	1	0	1	1	0	1	2	0	0	1	0	0	0	0	0	0	744
11	719	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
12	731	3	2	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
	8273	220	78	49	34	28	16	14	6	8	5	8	2	0	4	2	1	1	2	1	8	

TOTAL HOURS FOR THE YEAR = 8760

HYDROSCIENCE RAINFALL ANALYSIS PROGRAM

HOURLY PRECIPAITATION-HUNDREDTHS OF AN INCH

rION	DATE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
2220	1/ 1/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	1/ 2/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
2220	1/ 3/50	0	1	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
2220	1/14/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2220	1/24/50	0	0	1	2	6	5	7	5	4	2	1	0	0	0	0	0	0	0	0	0	0	1	1	1
2220	1/25/50	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	1/29/50	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	1/30/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
2220	2/ 1/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	2/ 7/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	3	0
2220	2/ 8/50	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	2/11/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
2220	2/12/50	2	1	1	1	1	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	2/28/50	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2220	3/ [illegible]/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	3/11/50	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	1	2	2	1	2	2	1	1
2220	3/12/50	1	1	2	2	4	2	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
2220	3/18/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
2220	4/ 1/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	4/ 3/50	0	2	0	0	4	2	2	2	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0
2220	4/ 4/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
2220	4/15/50	0	0	0	0	0	0	0	0	0	0	0	0	1	21	7	0	22	13	6	55	42	1	2	0
2220	4/16/50	2	2	4	7	7	0	2	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	4/18/50	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	4/19/50	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	4/24/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	11	6	5	3	11	6
2220	4/29/50	4	4	0	0	1	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0
2220	5/ 1/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	5/ 4/50	0	0	0	1	1	0	1	0	0	0	0	1	2	2	2	3	7	3	4	3	4	3	7	3
2220	5/ 5/50	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	5/ 7/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	2	2	1	1	0	0	1
2220	5/ 9/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	14	0	5	2	0
2220	5/10/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5	0
2220	5/15/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
2220	5/25/50	0	3	2	2	3	4	4	4	6	6	7	11	11	10	10	8	8	5	5	5	4	5	5	3
2220	5/26/50	4	4	3	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	5/27/50	0	0	0	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0	0	0	0
2220	5/29/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	0	0	0	0	0	0	0
2220	6/ 1/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2220	6/ 2/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2	7	5	4
2220	6/ 3/50	1	0	1	0	0	2	5	4	4	6	4	4	0	2	1	0	0	0	0	0	0	0	0	0
52220	6/16/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	82	46	57	4	17	0	0	0
52220	6/18/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57	5	5
52220	6/19/50	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52220	6/29/50	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52220	7/ 1/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	1	0	0	0	0
52220	7/ 2/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0
52220	7/ 4/50	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
52220	7/ 5/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	0	0	0	0	0	0
52220	7/16/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
52220	7/17/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	0	0
52220	7/18/50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	0	0	0	0

052220	7/29/50
052220	8/ 1/50
052220	8/11/50
052220	8/13/50
052220	8/16/50
052220	8/26/50
052220	8/27/50
052220	9/ 1/50
052220	9/ 8/50
052220	9/ 9/50
052220	9/10/50
052220	9/11/50
052220	9/13/50
052220	9/15/50
052220	9/16/50
052220	9/19/50
052220	10/ 1/50
052220	11/ 1/50
052220	11/ 2/50
052220	11/ 5/50
052220	11/ 8/50
052220	11/ 9/50
052220	11/19/50
052220	12/ 1/50
052220	12/ 4/50
052220	12/ 5/50
052220	12/31/50

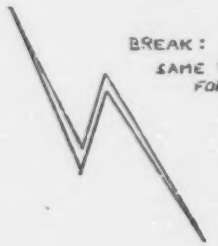
STATION	STORM NO	STORM DATE	EVENT HOUR	SUMMARY DURAT HOURS	INTENSITY INCHES/HR	VOLUME INCHES	DELTA HOURS
052220	136	01/02/50	23	10	0.004000	0.04	330.5
052220	137	01/03/50	15	1	0.010005	0.01	11.5
052220	138	01/14/50	24	1	0.020005	0.02	273.0
052220	139	01/24/50	5	9	0.036667	0.33	223.0
052220	140	01/24/50	22	5	0.010000	0.05	17.0
052220	141	01/29/50	9	1	0.010005	0.01	105.0
052220	142	01/30/50	21	1	0.010005	0.01	35.0
052220	143	02/07/50	21	6	0.013334	0.08	194.5
052220	144	02/11/50	24	10	0.011000	0.11	101.0
052220	145	02/28/50	12	1	0.010005	0.01	391.5
052220	146	03/11/50	10	4	0.005001	0.02	263.5
052220	147	03/11/50	17	20	0.014000	0.29	15.0
052220	148	03/18/50	15	1	0.010005	0.01	156.5
052220	149	04/03/50	2	7	0.017143	0.12	374.0
052220	150	04/03/50	15	7	0.010000	0.07	13.0
052220	151	04/04/50	23	1	0.010005	0.01	29.0
052220	152	04/15/50	15	20	0.106500	2.13	263.5
052220	153	04/18/50	5	2	0.055002	0.11	55.0
052220	154	04/19/50	4	1	0.010005	0.01	22.5
052220	155	04/28/50	18	12	0.044167	0.53	235.5
052220	156	05/04/50	4	4	0.007501	0.03	126.0
052220	157	05/04/50	12	15	0.031333	0.47	15.5
052220	158	05/07/50	16	9	0.018444	0.15	73.0
052220	159	05/09/50	19	5	0.080000	0.40	49.0
052220	160	05/10/50	22	2	0.050002	0.10	25.5
052220	161	05/15/50	19	1	0.010005	0.01	116.5
052220	162	05/25/50	2	29	0.051379	1.49	237.0
052220	163	05/27/50	12	2	0.020002	0.04	44.5
052220	164	05/28/50	17	1	0.130005	0.13	28.5
052220	165	06/02/50	20	20	0.027000	0.54	132.5
052220	166	06/16/50	17	5	0.412000	2.06	325.5
052220	167	06/18/50	22	5	0.142000	0.71	55.0
052220	168	06/29/50	5	1	0.010005	0.01	245.0
052220	169	07/01/50	19	2	0.055002	0.11	62.5
052220	170	07/02/50	15	1	0.030005	0.03	19.5
052220	171	07/04/50	13	1	0.010005	0.01	46.0
052220	172	07/05/50	17	2	0.020002	0.04	28.5
052220	173	07/16/50	15	1	0.010005	0.01	261.5
052220	174	07/17/50	17	2	0.025002	0.05	26.5
052220	175	07/18/50	19	2	0.035002	0.07	26.0
052220	176	07/28/50	19	2	0.120002	0.24	240.0
052220	177	08/11/50	20	1	0.100005	0.10	336.5
052220	178	08/13/50	16	5	0.008001	0.04	46.0
052220	179	08/16/50	15	1	0.010005	0.01	72.0
052220	180	08/26/50	12	2	0.045002	0.09	234.5
052220	181	08/27/50	3	3	0.010001	0.03	15.5
052220	182	09/08/50	10	2	0.280002	0.56	294.5
052220	183	09/09/50	17	1	0.010005	0.01	30.5
052220	184	09/10/50	17	2	0.010002	0.02	24.5
052220	185	09/10/50	23	4	0.095001	0.38	7.0
052220	186	09/11/50	18	6	0.015000	0.09	20.0
052220	187	09/12/50	6	1	0.010005	0.01	9.5
052220	188	09/15/50	21	9	0.005556	0.05	91.0

052220	189	09/16/50	15	2	0.040002	0.08	14.5
052220	190	09/19/50	16	3	0.126668	0.38	73.5
052220	191	10/01/50	17	6	0.020000	0.12	290.5
052220	192	11/02/50	9	5	0.036000	0.18	759.5
052220	193	11/02/50	22	4	0.007501	0.03	12.5
052220	194	11/08/50	8	25	0.029600	0.74	180.5
052220	195	11/19/50	11	1	0.050005	0.05	255.0
052220	196	12/04/50	18	11	0.024545	0.27	372.0

NUMBER OF HOURS OF RAINFALL IN HUNDREDTHS OF AN INCH
INTERVALS BETWEEN 0.00 AND 0.20 INCHES

MONTH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 & >	TOTAL HOURS PER MONTH
1	722	14	5	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	744
2	658	10	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	672
3	725	13	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
4	676	12	9	2	4	1	2	3	3	1	0	2	0	1	0	0	0	0	0	0	4	720
5	679	10	11	13	8	4	2	3	3	0	2	3	0	1	1	0	0	0	0	0	0	744
6	693	5	4	1	6	4	1	1	0	0	0	0	0	0	0	0	0	1	0	0	4	720
7	731	6	0	2	1	0	2	0	0	0	1	0	0	0	0	0	0	0	1	0	0	744
8	735	4	2	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	744
9	696	12	5	1	1	0	1	0	0	0	1	1	0	0	1	0	0	0	0	0	3	720
10	739	1	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
11	687	7	8	9	4	1	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	720
12	731	7	0	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
	8470	101	59	34	26	19	13	8	7	2	5	6	0	2	2	0	0	1	1	0	11	

TOTAL HOURS FOR THE YEAR = 8760



BREAK:
SAME PROCEEDURE IS REPEATED
FOR 1951 - 1972

HYDROSCIENCE RAINFALL ANALYSIS PROGRAM

STATION	DATE	HOURLY PRECIPITATION-HUNDREDTHS OF AN INCH																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
052220	1/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.	0	0	0	0	0	0
052220	1/ 3/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0
052220	1/ 7/73	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	1/ 8/73	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
052220	1/ 9/73	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	1/20/73	0	0	0	0	4	7	8	7	9	9	7	4	5	4	4	4	6	1	1	1	2	1	2	1
052220	1/21/73	0	0	1	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	1/26/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	3	0
052220	1/27/73	1	1	1	1	1	3	4	4	6	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	2/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	2/ 7/73	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
052220	2/13/73	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	2/18/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	6
052220	2/19/73	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/ 2/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	4
052220	3/ 3/73	5	7	4	2	3	1	1	2	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/13/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	6	0	0	0	0	0	0	0
052220	3/14/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
052220	3/15/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
052220	3/18/73	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	5	20	7	7	10	8
052220	3/19/73	2	3	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/21/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	1	0
052220	3/24/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2
052220	3/25/73	4	4	4	4	3	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	3/27/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	2	0
052220	3/28/73	0	1	1	0	3	1	1	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0
052220	3/29/73	1	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
052220	3/30/73	0	0	0	0	0	0	2	1	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
052220	4/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	2
052220	4/ 2/73	1	0	0	0	1	0	2	2	0	1	4	5	5	3	0	1	2	6	3	2	0	0	1	2
052220	4/ 3/73	3	8	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	4/ 6/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	7
052220	4/ 7/73	2	4	2	2	1	4	4	3	8	6	5	3	3	4	3	5	2	4	6	4	4	4	4	3
052220	4/ 8/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	0
052220	4/15/73	0	0	0	0	1	0	0	0	0	1	2	1	2	2	2	1	1	1	0	0	0	0	0	0
052220	4/19/73	0	1	0	1	2	2	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
052220	4/21/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
052220	4/24/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	1	0	0	0	0	8	16	11	9
052220	4/25/73	10	9	2	2	3	6	5	5	1	2	2	0	0	1	0	0	0	0	0	0	0	0	0	1
052220	4/26/73	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	4/30/73	0	0	0	0	1	0	0	0	0	0	1	0	0	1	1	6	15	20	4	3	10	7	2	3
052220	5/ 1/73	0	1	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3	2
052220	5/ 2/73	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	5/ 5/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	16	12
052220	5/ 6/73	1	4	8	4	16	36	28	14	16	27	14	23	23	24	25	22	13	14	12	2	1	0	0	0
052220	5/19/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0
052220	5/21/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	4	0	0	0	0	4
052220	5/22/73	7	6	5	1	2	2	2	3	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	5/24/73	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	4	4	1	0	0
052220	5/26/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
052220	5/29/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	4	

052220	5/30/73	6	6	10	16	4	6	6	7	7	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	6/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
052220	6/ 3/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	1	2	1	0	0	0	0	0	0
052220	6/ 4/73	0	0	0	0	0	0	0	0	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	6/12/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
052220	6/14/73	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	7/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	7/ 9/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0
052220	7/12/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	13	6	1	0	0	0	0	0
052220	7/13/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
052220	7/14/73	0	0	1	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	7/15/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0
052220	7/16/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
052220	7/18/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0
052220	7/19/73	0	0	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	0	53	0	0	0	0	0	0
052220	7/20/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
052220	7/21/73	0	0	0	1	0	0	0	0	0	0	0	0	6	3	0	0	0	0	0	0	0	0	0	0	0	0
052220	7/22/73	0	0	0	0	0	0	0	0	0	0	0	0	13	0	6	0	0	0	0	0	0	0	0	0	0	0
052220	7/23/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
052220	7/24/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	76	28	1	0	0	0	0	0	0
052220	7/30/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	3	0	3	0	0	0	0	0	0	0
052220	7/31/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0
052220	8/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	8/ 5/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
052220	8/ 6/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0
052220	8/ 7/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	1	0	0	0	0	0	0	0	0	0
052220	8/11/73	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
052220	8/21/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	6	0	0	0	0	0	0	0
052220	8/24/73	0	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	8/28/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
052220	8/31/73	0	0	0	0	0	0	1	5	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	9/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	9/ 2/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0
052220	9/ 8/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0
052220	9/ 9/73	0	4	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	6	0	0	0	0	0	0
052220	9/10/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0
052220	9/11/73	0	0	0	0	50	4	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	1
052220	9/15/73	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
052220	9/16/73	0	0	0	0	1	0	0	0	0	0	0	3	0	0	0	3	0	0	0	1	0	0	0	0	0	0
052220	9/25/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	0	0
052220	9/26/73	3	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	9/27/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
052220	9/28/73	0	1	2	4	7	4	4	15	15	12	14	13	7	6	2	3	6	3	5	4	2	2	8	5		
052220	9/29/73	5	2	1	1	1	1	1	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
052220	10/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
052220	10/ 3/73	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0		
052220	10/ 9/73	0	0	0	0	0	0	0	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0		
052220	10/10/73	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	2		
052220	10/11/73	0	0	3	6	6	4	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
052220	10/29/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	6	2		
052220	10/30/73	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
052220	11/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	3		
052220	11/ 2/73	3	3	2	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
052220	11/ 3/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0		
052220	11/ 4/73	0	2	0	2	2	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
052220	11/19/73	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	2	2	5	3	3	4	9	6	2		
052220	11/26/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	4	3	0	0		

052220	11/27/73	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/ 1/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	0	4	0	4	3
052220	12/ 2/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/ 3/73	16	15	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	5	0	3	0	1
052220	12/10/73	0	0	0	0	0	0	1	0	2	5	5	0	0	0	0	0	2	2	2	5	7	2	5	3	2	1	3
052220	12/23/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	20	7	8	5	10	10	16	17	17	1	0
052220	12/24/73	1	2	4	6	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
052220	12/25/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
052220	12/26/73	0	1	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	1	1	0	0
052220	12/29/73	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	1	0	1	0	0	0
052220	12/30/73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

STATION	STORM NO	STORM DATE	EVENT HOUR	SUMMARY DURAT HOURS	INTENSITY INCHES/HR	VOLUME INCHES	DELTA HOURS
052220	2238	01/03/73	15	1	0.010005	0.01	107.0
052220	2239	01/03/73	21	1	0.010005	0.01	6.0
052220	2240	01/07/73	1	1	0.010005	0.01	76.0
052220	2241	01/08/73	6	1	0.010005	0.01	29.0
052220	2242	01/08/73	23	1	0.010005	0.01	17.0
052220	2243	01/09/73	5	1	0.010005	0.01	6.0
052220	2244	01/20/73	5	25	0.036800	0.92	276.0
052220	2245	01/26/73	20	15	0.022000	0.33	154.0
052220	2246	02/07/73	10	3	0.010001	0.03	272.0
052220	2247	02/13/73	11	1	0.010005	0.01	144.0
052220	2248	02/18/73	23	3	0.040001	0.12	133.0
052220	2249	03/02/73	23	13	0.029231	0.38	293.0
052220	2250	03/13/73	15	2	0.070002	0.14	251.5
052220	2251	03/14/73	23	1	0.010005	0.01	30.5
052220	2252	03/15/73	16	1	0.010005	0.01	17.0
052220	2253	03/18/73	19	12	0.053333	0.64	80.5
052220	2254	03/21/73	21	3	0.023334	0.07	69.5
052220	2255	03/24/73	22	12	0.021667	0.26	77.5
052220	2256	03/27/73	20	17	0.008235	0.14	72.5
052220	2257	03/28/73	23	5	0.008000	0.04	21.0
052220	2258	03/29/73	7	1	0.010005	0.01	6.0
052220	2259	03/29/73	22	1	0.010005	0.01	15.0
052220	2260	03/30/73	7	2	0.015002	0.03	9.5
052220	2261	03/30/73	13	1	0.020005	0.02	5.5
052220	2262	04/01/73	23	3	0.016668	0.05	59.0
052220	2263	04/02/73	5	25	0.022800	0.57	17.0
052220	2264	04/06/73	22	27	0.036666	0.99	114.0
052220	2265	04/08/73	21	3	0.013334	0.04	35.0
052220	2266	04/15/73	5	1	0.010005	0.01	151.0
052220	2267	04/15/73	10	9	0.014444	0.13	9.0
052220	2268	04/19/73	2	6	0.013334	0.08	86.5
052220	2269	04/19/73	15	1	0.010005	0.01	10.5
052220	2270	04/21/73	16	1	0.010005	0.01	49.0
052220	2271	04/24/73	15	2	0.025002	0.05	71.5
052220	2272	04/24/73	21	18	0.052222	0.94	14.0
052220	2273	04/25/73	24	7	0.008572	0.06	21.5
052220	2274	04/30/73	5	1	0.010005	0.01	98.0
052220	2275	04/30/73	11	16	0.049375	0.79	15.5
052220	2276	05/01/73	7	5	0.006001	0.03	14.5
052220	2277	05/01/73	23	2	0.025002	0.05	14.5
052220	2278	05/02/73	4	1	0.010005	0.01	4.5
052220	2279	05/05/73	18	1	0.010005	0.01	86.0
052220	2280	05/05/73	23	23	0.154347	3.55	16.0
052220	2281	05/19/73	17	1	0.040005	0.04	319.0
052220	2282	05/21/73	15	1	0.010005	0.01	46.0
052220	2283	05/21/73	19	1	0.040005	0.04	4.0
052220	2284	05/21/73	24	11	0.032727	0.36	10.0
052220	2285	05/24/73	12	1	0.010005	0.01	55.0
052220	2286	05/24/73	19	4	0.025001	0.10	8.5
052220	2287	05/26/73	15	1	0.010005	0.01	42.5
052220	2288	05/29/73	22	14	0.059286	0.83	85.5
052220	2289	06/01/73	16	1	0.010005	0.01	59.5
052220	2290	06/03/73	16	5	0.016000	0.08	50.0

052220	2291	06/04/73	9	2	0.040002	0.08	15.5
052220	2292	06/12/73	17	1	0.020005	0.02	199.5
052220	2293	06/14/73	12	1	0.010005	0.01	43.0
052220	2294	07/09/73	20	2	0.030002	0.06	608.5
052220	2295	07/12/73	15	4	0.067501	0.27	71.0
052220	2296	07/13/73	24	8	0.005000	0.04	32.0
052220	2297	07/15/73	15	5	0.006001	0.03	37.5
052220	2298	07/16/73	16	1	0.010005	0.01	23.0
052220	2299	07/18/73	21	1	0.020005	0.02	55.0
052220	2300	07/19/73	8	1	0.010005	0.01	11.0
052220	2301	07/19/73	12	4	0.005001	0.02	5.5
052220	2302	07/19/73	20	1	0.530004	0.53	6.5
052220	2303	07/20/73	15	1	0.010005	0.01	19.0
052220	2304	07/21/73	4	1	0.010005	0.01	13.0
052220	2305	07/21/73	13	2	0.045002	0.09	9.5
052220	2306	07/22/73	13	3	0.063334	0.19	24.5
052220	2307	07/23/73	24	1	0.020005	0.02	34.0
052220	2308	07/24/73	17	4	0.265001	1.06	18.5
052220	2309	07/30/73	15	5	0.016000	0.08	142.5
052220	2310	07/31/73	20	2	0.010002	0.02	27.5
052220	2311	08/05/73	16	1	0.020005	0.02	115.5
052220	2312	08/06/73	15	1	0.040005	0.04	26.0
052220	2313	08/07/73	16	2	0.475002	0.95	22.5
052220	2314	08/11/73	14	1	0.010005	0.01	93.5
052220	2315	08/21/73	17	1	0.050005	0.05	243.0
052220	2316	08/24/73	13	1	0.110004	0.11	68.0
052220	2317	08/28/73	15	1	0.010005	0.01	98.0
052220	2318	08/31/73	7	3	0.030001	0.09	65.0
052220	2319	09/02/73	19	1	0.030005	0.03	58.0
052220	2320	09/08/73	21	1	0.070004	0.07	147.0
052220	2321	09/09/73	2	4	0.030001	0.12	6.5
052220	2322	09/09/73	19	2	0.070002	0.14	16.0
052220	2323	09/10/73	15	1	0.020005	0.02	19.5
052220	2324	09/11/73	5	2	0.270002	0.54	18.5
052220	2325	09/11/73	14	1	0.110004	0.11	8.5
052220	2326	09/11/73	24	1	0.010005	0.01	10.0
052220	2327	09/15/73	9	1	0.010005	0.01	81.0
052220	2328	09/15/73	16	1	0.010005	0.01	7.0
052220	2329	09/16/73	5	1	0.010005	0.01	13.0
052220	2330	09/16/73	12	1	0.030005	0.03	7.0
052220	2331	09/16/73	20	1	0.010005	0.01	8.0
052220	2332	09/25/73	22	6	0.020000	0.12	220.5
052220	2333	09/27/73	24	33	0.049091	1.62	63.5
052220	2334	10/03/73	9	1	0.020005	0.02	115.0
052220	2335	10/03/73	17	2	0.010002	0.02	8.5
052220	2336	10/09/73	13	2	0.015002	0.03	140.0
052220	2337	10/09/73	21	1	0.010005	0.01	7.5
052220	2338	10/10/73	3	1	0.010005	0.01	6.0
052220	2339	10/10/73	16	3	0.010001	0.03	14.0
052220	2340	10/10/73	24	9	0.026667	0.24	11.0
052220	2341	10/29/73	22	4	0.027501	0.11	451.5
052220	2342	11/01/73	22	9	0.023333	0.21	74.5
052220	2343	11/02/73	23	1	0.010005	0.01	21.0
052220	2344	11/03/73	23	10	0.011000	0.11	28.5
052220	2345	11/19/73	14	11	0.035454	0.39	375.5
052220	2346	11/26/73	19	4	0.025001	0.10	169.5
052220	2347	11/27/73	2	1	0.010005	0.01	5.5

052220	2348	12/02/73	19	10	0.071000	0.71	141.5
052220	2349	12/18/73	7	18	0.033333	0.60	376.0
052220	2350	12/23/73	13	16	0.076666	1.38	126.0
052220	2351	12/25/73	24	5	0.012001	0.06	52.5
052220	2352	12/29/73	21	3	0.010001	0.03	92.0
052220	2353	12/30/73	13	2	0.015002	0.03	15.5
052220	2354	12/30/73	18	5	0.006001	0.03	6.5

NUMBER OF HOURS OF RAINFALL IN HUNDREDTHS OF AN INCH
INTERVALS BETWEEN 0.00 AND 0.20 INCHES

MONTH	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20 & >	TOTAL HOURS PER MONTH
1	701	20	3	3	8	1	2	3	1	2	0	0	0	0	0	0	0	0	0	0	0	744
2	665	4	1	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	672
3	683	28	10	7	6	2	1	3	2	0	1	0	0	0	0	0	0	0	0	0	1	744
4	615	35	24	10	13	6	4	2	5	2	2	1	0	0	0	1	1	0	0	0	1	720
5	679	16	6	4	9	2	5	3	1	0	1	0	2	1	3	0	4	0	0	0	8	744
6	710	5	2	2	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	720
7	709	19	3	3	0	1	3	1	0	0	0	0	0	2	0	0	0	0	0	0	3	744
8	733	4	1	1	1	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	744
9	664	14	9	7	8	3	3	3	2	0	0	1	1	1	1	2	0	0	0	0	1	720
10	723	10	6	1	1	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	744
11	687	8	13	7	2	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	720
12	686	14	12	3	8	5	1	3	4	0	2	0	0	0	0	1	2	2	0	0	1	744
	8253	177	98	48	57	24	24	18	15	5	6	3	3	4	4	4	7	2	0	0	16	

TOTAL HOURS FOR THE YEAR = 8760

RAINFALL STATISTICS BY MONTH(FOR PERIOD OF RECORD)

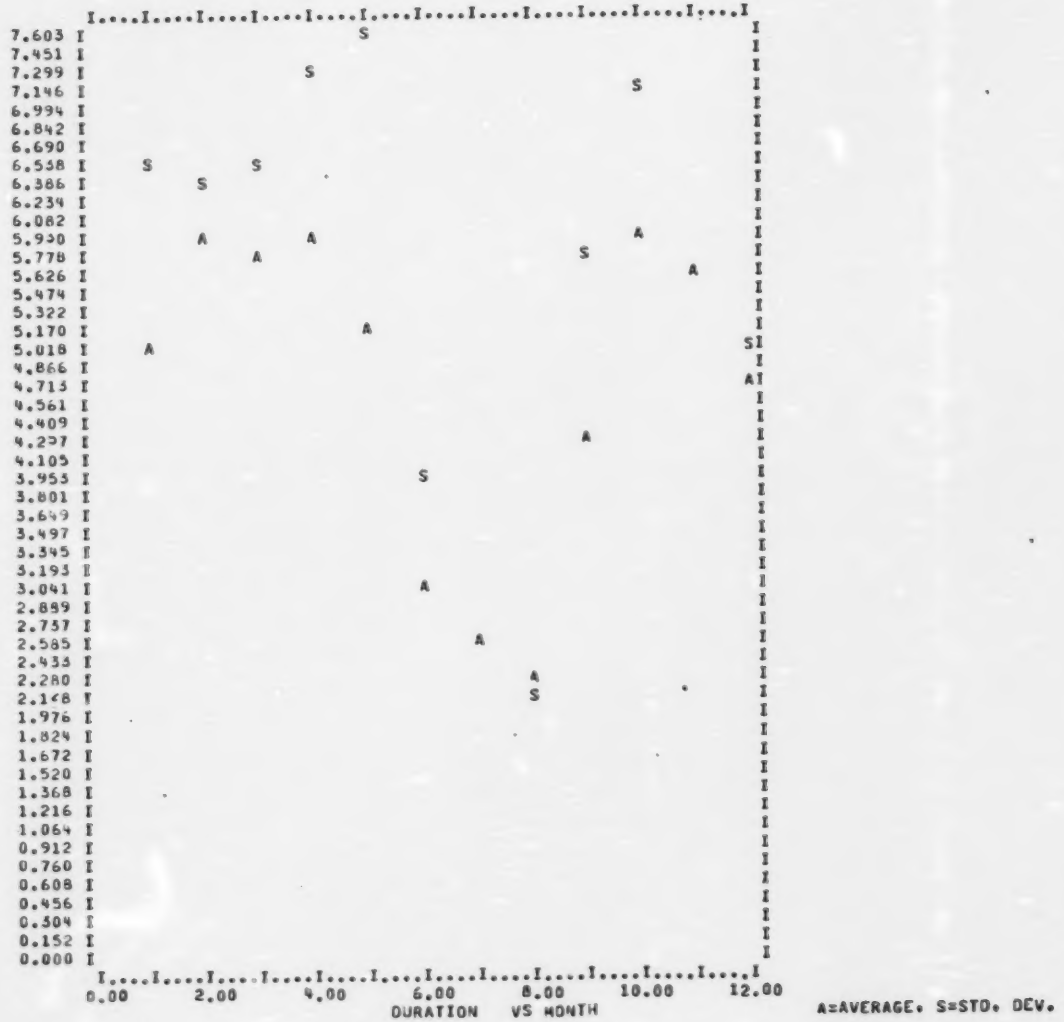
MONTH		NUMBER	TOTAL	MINIMUM	MAXIMUM	AVERAGE	STD DEV	VARIANCE	COEF-VAR
1	DURATION	150.	0.764000E 03	0.100000E 01	0.490000E 02	0.509333E 01	0.656750E 01	0.431321E 02	0.128943E 01
	INTENSITY	150.	0.219661E 01	0.400000E-02	0.600010E-01	0.146440E-01	0.993968E-02	0.987973E-04	0.678751E 00
	VOLUME	150.	0.139798E 02	0.100000E-01	0.104000E 01	0.931992E-01	0.162456E 00	0.263922E-01	0.174311E 01
	DELTA	150.	0.186345E 05	0.400000E 01	0.107150E 04	0.124230E 03	0.166778E 03	0.278151E 05	0.134250E 01
2	DURATION	142.	0.841000E 03	0.100000E 01	0.330000E 02	0.592253E 01	0.632463E 01	0.400010E 02	0.106789E 01
	INTENSITY	142.	0.253608E 01	0.500000E-02	0.750010E-01	0.178597E-01	0.126667E-01	0.160447E-03	0.709236E 00
	VOLUME	142.	0.178894E 02	0.100000E-01	0.110000E 01	0.125985E 00	0.181589E 00	0.330111E-01	0.144215E 01
	DELTA	142.	0.179610E 05	0.500000E 01	0.787000E 03	0.126405E 03	0.144351E 03	0.208374E 05	0.114124E 01
3	DURATION	224.	0.129700E 04	0.100000E 01	0.370600E 02	0.579017E 01	0.653762E 01	0.427405E 02	0.112908E 01
	INTENSITY	224.	0.440279E 01	0.473700E-02	0.167501E 00	0.196553E-01	0.176919E-01	0.312651E-03	0.899599E 00
	VOLUME	224.	0.304396E 02	0.100000E-01	0.170000E 01	0.135891E 00	0.223920E 00	0.501404E-01	0.164779E 01
	DELTA	224.	0.184405E 05	0.400000E 01	0.860500E 03	0.823236E 02	0.106620E 03	0.113578E 05	0.129513E 01
4	DURATION	224.	0.131600E 04	0.100000E 01	0.420000E 02	0.587500E 01	0.723299E 01	0.523161E 02	0.123114E 01
	INTENSITY	224.	0.603282E 01	0.600100E-02	0.240004E 00	0.269322E-01	0.317325E-01	0.100695E-02	0.117823E 01
	VOLUME	224.	0.461494E 02	0.100000E-01	0.325000E 01	0.206024E 00	0.423435E 00	0.179536E 00	0.205720E 01
	DELTA	224.	0.185880E 05	0.400000E 01	0.821500E 03	0.829821E 02	0.109177E 03	0.119196E 05	0.131567E 01
5	DURATION	272.	0.138900E 04	0.100000E 01	0.580000E 02	0.510661E 01	0.760314E 01	0.578077E 02	0.148888E 01
	INTENSITY	272.	0.104375E 02	0.500100E-02	0.503334E 00	0.383731E-01	0.467786E-01	0.218824E-02	0.121904E 01
	VOLUME	272.	0.660992E 02	0.100000E-01	0.433000E 01	0.243011E 00	0.528912E 00	0.279748E 00	0.217648E 01
	DELTA	272.	0.194690E 05	0.400000E 01	0.636000E 03	0.715772E 02	0.947347E 02	0.897466E 04	0.132353E 01
6	DURATION	257.	0.769000E 03	0.100000E 01	0.350000E 02	0.299221E 01	0.397943E 01	0.158358E 02	0.132992E 01
	INTENSITY	257.	0.131649E 02	0.666800E-02	0.650001E 00	0.512256E-01	0.737433E-01	0.543907E-02	0.143957E 01
	VOLUME	257.	0.452395E 02	0.100000E-01	0.282000E 01	0.176029E 00	0.384295E 00	0.147683E 00	0.218313E 01
	DELTA	257.	0.171550E 05	0.400000E 01	0.366500E 03	0.667509E 02	0.739571E 02	0.546965E 04	0.110795E 01
7	DURATION	259.	0.675000E 03	0.100000E 01	0.220000E 02	0.260617E 01	0.264955E 01	0.701484E 01	0.101626E 01
	INTENSITY	259.	0.167371E 02	0.500000E-02	0.760004E 00	0.646221E-01	0.994411E-01	0.988853E-02	0.153880E 01
	VOLUME	259.	0.450894E 02	0.100000E-01	0.205000E 01	0.174090E 00	0.297045E 00	0.882361E-01	0.170627E 01
	DELTA	259.	0.194705E 05	0.400000E 01	0.608500E 03	0.751756E 02	0.883221E 02	0.780079E 04	0.117487E 01
8	DURATION	233.	0.543000E 03	0.100000E 01	0.170000E 02	0.233047E 01	0.217900E 01	0.474907E 01	0.935006E 00
	INTENSITY	233.	0.135852E 02	0.500000E-02	0.675002E 00	0.583059E-01	0.944089E-01	0.891304E-02	0.161919E 01
	VOLUME	233.	0.340996E 02	0.100000E-01	0.343000E 01	0.146350E 00	0.309647E 00	0.958815E-01	0.211579E 01
	DELTA	233.	0.189285E 05	0.000000E 00	0.493000E 03	0.812382E 02	0.847613E 02	0.718449E 04	0.104336E 01
9	DURATION	171.	0.730000E 03	0.100000E 01	0.400000E 02	0.426900E 01	0.574129E 01	0.329624E 02	0.134487E 01
	INTENSITY	171.	0.830957E 01	0.500100E-02	0.655002E 00	0.485881E-01	0.732302E-01	0.536266E-02	0.150716E 01
	VOLUME	171.	0.351397E 02	0.100000E-01	0.164000E 01	0.205495E 00	0.334049E 00	0.111589E 00	0.162558E 01
	DELTA	171.	0.166235E 05	0.500000E 01	0.660500E 03	0.972134E 02	0.122170E 03	0.149257E 05	0.125672E 01
10	DURATION	132.	0.781000E 03	0.100000E 01	0.390000E 02	0.591666E 01	0.722278E 01	0.521695E 02	0.122075E 01
	INTENSITY	132.	0.368089E 01	0.600100E-02	0.170004E 00	0.278855E-01	0.281713E-01	0.793625E-03	0.101025E 01
	VOLUME	132.	0.253198E 02	0.100000E-01	0.170000E 01	0.191816E 00	0.306819E 00	0.941391E-01	0.159954E 01
	DELTA	132.	0.198020E 05	0.500000E 01	0.118150E 04	0.150015E 03	0.184240E 03	0.339446E 05	0.122814E 01
11	DURATION	139.	0.785000E 03	0.100000E 01	0.300000E 02	0.564748E 01	0.566308E 01	0.320704E 02	0.100276E 01
	INTENSITY	139.	0.281239E 01	0.500100E-02	0.775010E-01	0.202330E-01	0.145090E-01	0.210511E-03	0.717095E 00
	VOLUME	139.	0.187098E 02	0.100000E-01	0.820000E 00	0.134603E 00	0.174464E 00	0.304379E-01	0.129613E 01
	DELTA	139.	0.174025E 05	0.400000E 01	0.918000E 03	0.125197E 03	0.155972E 03	0.243273E 05	0.124580E 01

12

DURATION	151.	0.714000E 03	0.100000E 01	0.290000E 02	0.472847E 01	0.499324E 01	0.249324E 02	0.105599E 01
INTENSITY	151.	0.249542E 01	0.500100E-02	0.766660E-01	0.165326E-01	0.115608E-01	0.133653E-03	0.699276E 00
VOLUME	151.	0.147398E 02	0.100000E-01	0.138000E 01	0.976150E-01	0.166791E 00	0.278195E-01	0.170866E 01
DELTA	151.	0.202905E 05	0.400000E 01	0.763000E 03	0.134374E 03	0.172661E 03	0.298119E 05	0.128493E 01

SUMMARY OF RAINFALL STATISTICS BY MONTH(FOR PERIOD OF RECORD)

MONTH	DURATION		INTENSITY		VOLUME		DELTA	
	AVERAGE	STD DEV	AVERAGE	STD DEV	AVERAGE	STD DEV	AVERAGE	STD DEV
1.	5.09	6.56	0.0146	0.0099	0.09	0.16	124.	166.
2.	5.92	6.32	0.0176	0.0126	0.12	0.18	126.	144.
3.	5.79	6.55	0.0196	0.0176	0.13	0.22	82.	106.
4.	5.87	7.25	0.0269	0.0317	0.20	0.42	82.	109.
5.	5.10	7.60	0.0383	0.0467	0.24	0.52	71.	94.
6.	2.99	3.97	0.0512	0.0737	0.17	0.38	66.	73.
7.	2.60	2.64	0.0646	0.0994	0.17	0.29	75.	88.
8.	2.33	2.17	0.0583	0.0943	0.14	0.30	81.	84.
9.	4.26	5.74	0.0485	0.0732	0.20	0.33	97.	122.
10.	5.91	7.22	0.0278	0.0281	0.19	0.30	150.	184.
11.	5.64	5.66	0.0202	0.0145	0.13	0.17	125.	155.
12.	4.72	4.99	0.0165	0.0115	0.09	0.16	134.	172.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5.930
5.778
5.626
5.474
5.322
5.170
5.018
4.866
4.713
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4.409
4.257
4.105
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3.801
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3.345
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2.585
2.433
2.280
2.128
1.976
1.824
1.672
1.520
1.368
1.216
1.064
0.912
0.760
0.608
0.456
0.304
0.152
0.000
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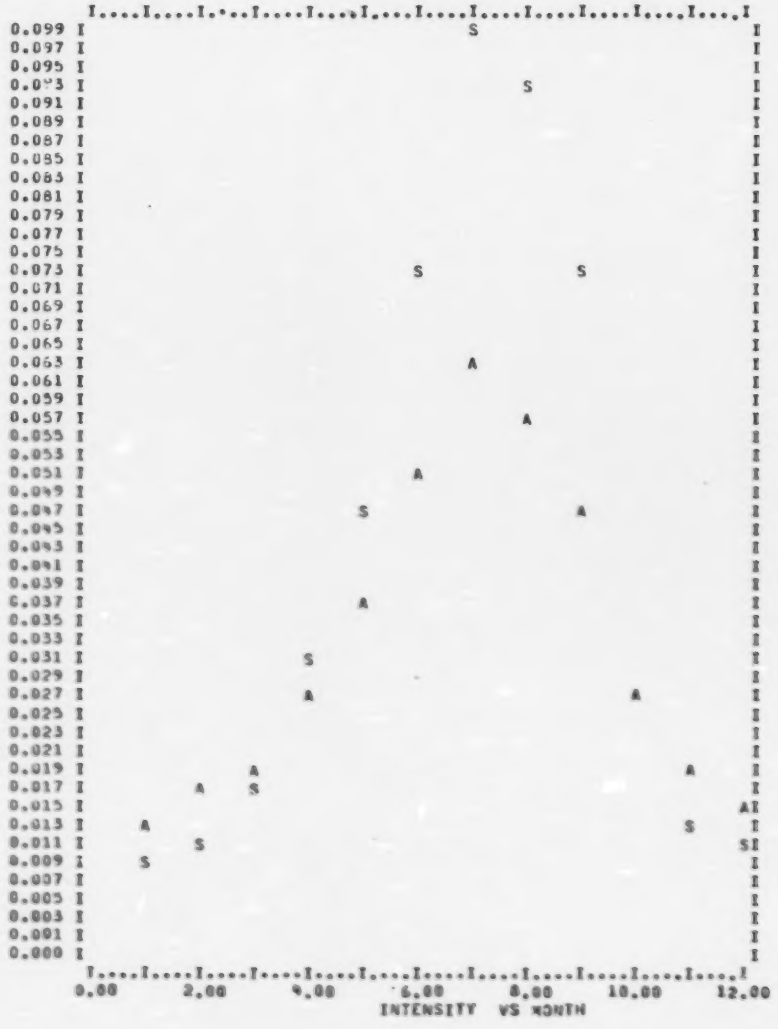
2.00
4.00
6.00
8.00
10.00
12.00
DURATION VS MONTH
A=AVERAGE, S=STD. DEV.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0.095
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0.091
0.089
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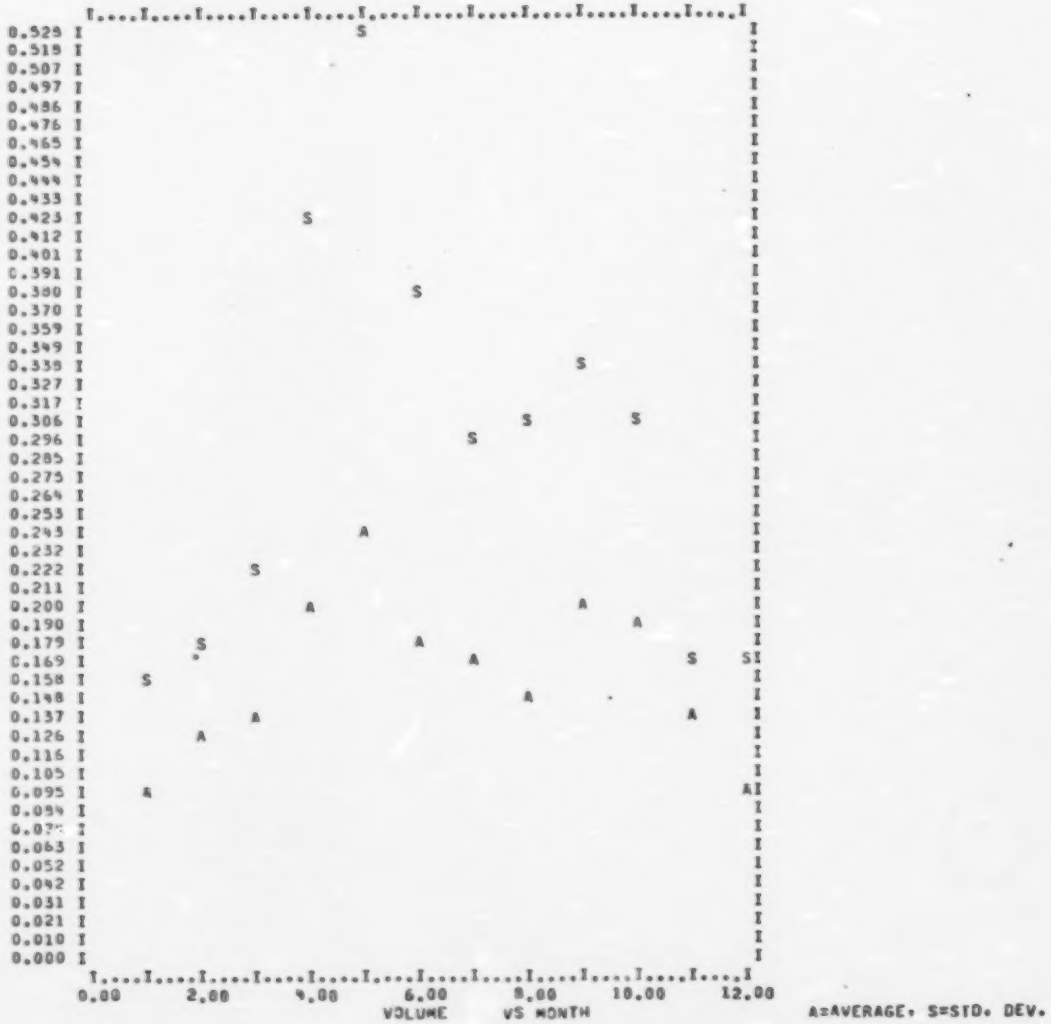
0.085
0.083
0.081
0.079
0.077
0.075
0.073
0.071
0.069
0.067
0.065
0.063
0.061
0.059
0.057
0.055
0.053
0.051
0.049
0.047
0.045
0.043
0.041
0.039
0.037
0.035
0.033
0.031
0.029
0.027
0.025
0.023
0.021
0.019
0.017
0.015
0.013
0.011
0.009
0.007
0.005
0.003
0.001
0.000
0.00
2.00
4.00
6.00
8.00
10.00
12.00
INTENSITY VS MONTH
A=AVERAGE. S=STD. DEV.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0.454
0.444
0.433
0.423
0.412
0.401
0.391
0.380
0.370
0.359
0.349
0.338
0.327
0.317
0.306
0.296
0.285
0.275
0.264
0.253
0.243
0.232
0.222
0.211
0.200
0.190
0.179
0.169
0.158
0.148
0.137
0.126
0.116
0.105
0.095
0.084
0.073
0.063
0.052
0.042
0.031
0.021
0.010
0.000
0.00
2.00
4.00
6.00
8.00
10.00
12.00
VOLUME VS MONTH
A=AVERAGE, S=STD. DEV.

184.240
180.555
176.871
173.186
169.501
165.816
162.131
158.447
154.762
151.077
147.392
143.707
140.022
136.338
132.653
128.968
125.283
121.598
117.914
114.229
110.544
106.859
103.174
99.490
95.805
92.120
88.435
84.750
81.065
77.381
73.696
70.011
66.326
62.641
58.957
55.272
51.587
47.902
44.217
40.532
36.848
33.163
29.478
25.793
22.108
18.424
14.739
11.054
7.369
3.684
0.000
0.00
2.00
4.00
6.00
8.00
10.00
12.00
DELTA VS MONTH
A=AVERAGE, S=STD. DEV.

RAINFALL STATISTICS BY YEAR(FOR PERIOD OF RECORD)

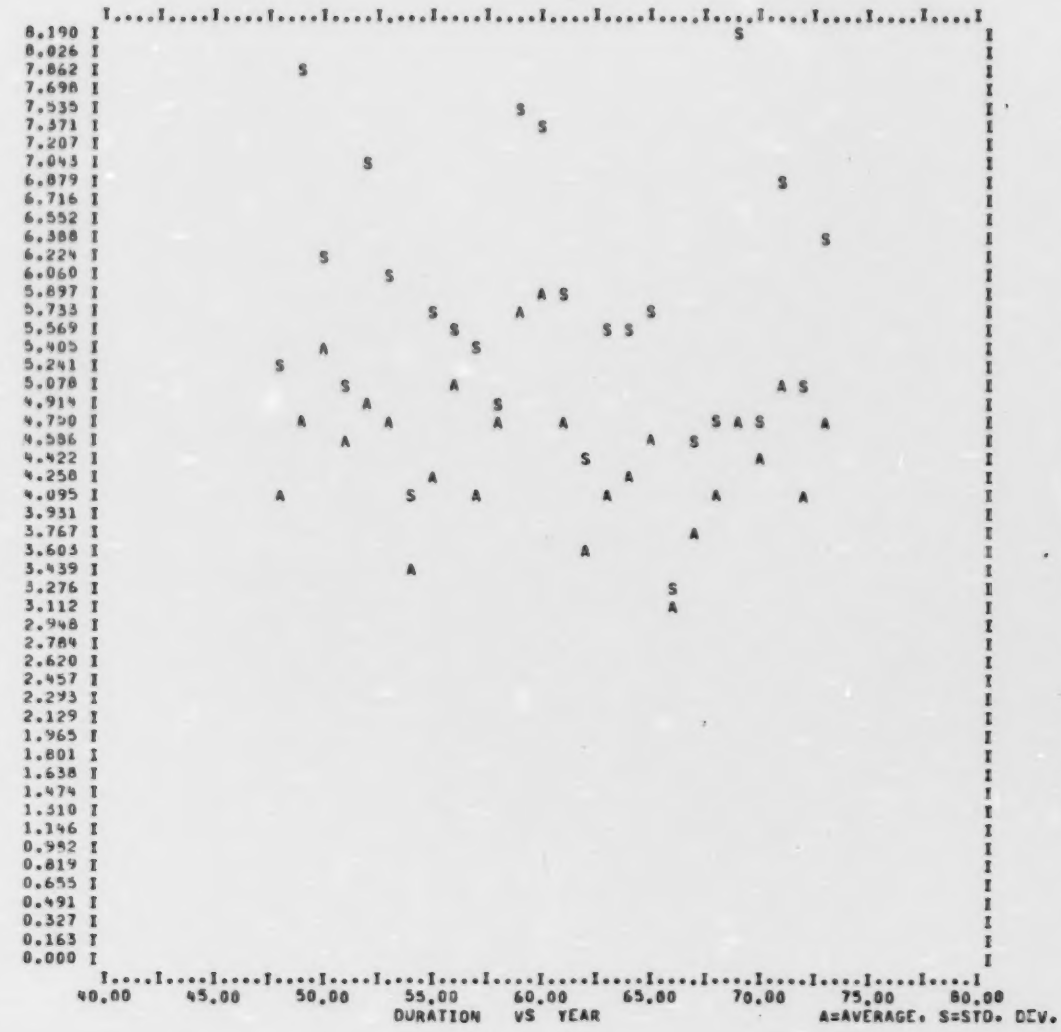
YEAR		NUMBER	TOTAL	MINIMUM	MAXIMUM	AVERAGE	STD DEV	VARIANCE	COEF-VAR
48									
	DURATION	24.	0.100000E 03	0.100000E 01	0.230000E 02	0.416666E 01	0.532154E 01	0.283189E 02	0.127717E 01
	INTENSITY	24.	0.724632E 00	0.666800E-02	0.133334E 00	0.301930E-01	0.393428E-01	0.154786E-02	0.130304E 01
	VOLUME	24.	0.192999E 01	0.100000E-01	0.400000E 00	0.804166E-01	0.947067E-01	0.896937E-02	0.117770E 01
	DELTA	24.	0.355350E 04	0.000000E 00	0.763000E 03	0.148062E 03	0.191573E 03	0.367002E 05	0.129386E 01
49									
	DURATION	111.	0.536000E 03	0.100000E 01	0.490000E 02	0.482882E 01	0.780661E 01	0.609431E 02	0.161666E 01
	INTENSITY	111.	0.336794E 01	0.636400E-02	0.200004E 00	0.303418E-01	0.339153E-01	0.115025E-02	0.111777E 01
	VOLUME	111.	0.167799E 02	0.100000E-01	0.196000E 01	0.151170E 00	0.289182E 00	0.836263E-01	0.191295E 01
	DELTA	111.	0.857700E 04	0.400000E 01	0.717000E 03	0.772702E 02	0.112657E 03	0.126917E 05	0.145797E 01
50									
	DURATION	62.	0.332000E 03	0.100000E 01	0.290000E 02	0.535483E 01	0.622390E 01	0.387249E 02	0.116210E 01
	INTENSITY	62.	0.265045E 01	0.400000E-02	0.412000E 00	0.427493E-01	0.667662E-01	0.445799E-02	0.156185E 01
	VOLUME	62.	0.139399E 02	0.100000E-01	0.213000E 01	0.224838E 00	0.424403E 00	0.180457E 00	0.189937E 01
	DELTA	62.	0.903950E 04	0.700000E 01	0.759500E 03	0.145798E 03	0.156591E 03	0.245209E 05	0.107402E 01
51									
	DURATION	110.	0.499000E 03	0.100000E 01	0.250000E 02	0.453636E 01	0.511640E 01	0.261775E 02	0.112786E 01
	INTENSITY	110.	0.429033E 01	0.571400E-02	0.650004E 00	0.390030E-01	0.798531E-01	0.637652E-02	0.204735E 01
	VOLUME	110.	0.194199E 02	0.100000E-01	0.343000E 01	0.176544E 00	0.394613E 00	0.155719E 00	0.223520E 01
	DELTA	110.	0.874300E 04	0.450000E 01	0.459500E 03	0.794818E 02	0.920243E 02	0.846948E 04	0.115780E 01
52									
	DURATION	85.	0.415000E 03	0.100000E 01	0.370000E 02	0.488235E 01	0.700410E 01	0.490574E 02	0.143457E 01
	INTENSITY	85.	0.239083E 01	0.583300E-02	0.260004E 00	0.281274E-01	0.328243E-01	0.107743E-02	0.116698E 01
	VOLUME	85.	0.135599E 02	0.100000E-01	0.150000E 01	0.159528E 00	0.305558E 00	0.933658E-01	0.191538E 01
	DELTA	85.	0.880500E 04	0.500000E 01	0.787000E 03	0.103588E 03	0.125816E 03	0.158296E 05	0.121458E 01
53									
	DURATION	86.	0.409000E 03	0.100000E 01	0.330000E 02	0.475581E 01	0.603701E 01	0.364955E 02	0.126939E 01
	INTENSITY	86.	0.270241E 01	0.500100E-02	0.350001E 00	0.314233E-01	0.450213E-01	0.202592E-02	0.143273E 01
	VOLUME	86.	0.141099E 02	0.100000E-01	0.187000E 01	0.164069E 00	0.290116E 00	0.841675E-01	0.176825E 01
	DELTA	86.	0.864450E 04	0.500000E 01	0.606000E 03	0.100517E 03	0.124448E 03	0.154973E 05	0.123807E 01
54									
	DURATION	68.	0.236000E 03	0.100000E 01	0.210000E 02	0.347058E 01	0.415545E 01	0.172677E 02	0.119733E 01
	INTENSITY	68.	0.240782E 01	0.666700E-02	0.420004E 00	0.354091E-01	0.601270E-01	0.361526E-02	0.169806E 01
	VOLUME	68.	0.750994E 01	0.100000E-01	0.115000E 01	0.110440E 00	0.191158E 00	0.365414E-01	0.173086E 01
	DELTA	68.	0.474200E 04	0.450000E 01	0.757000E 03	0.128705E 03	0.147062E 03	0.216273E 05	0.114262E 01
55									
	DURATION	82.	0.352000E 03	0.100000E 01	0.330000E 02	0.429268E 01	0.573593E 01	0.329009E 02	0.133621E 01
	INTENSITY	82.	0.407580E 01	0.666800E-02	0.655002E 00	0.497171E-01	0.846472E-01	0.716516E-02	0.170257E 01
	VOLUME	82.	0.160499E 02	0.100000E-01	0.137000E 01	0.195731E 00	0.322757E 00	0.104172E 00	0.164896E 01
	DELTA	82.	0.818550E 04	0.400000E 01	0.649000E 03	0.998231E 02	0.128251E 03	0.164484E 05	0.128478E 01
56									
	DURATION	70.	0.356000E 03	0.100000E 01	0.300000E 02	0.508571E 01	0.559954E 01	0.313548E 02	0.110103E 01
	INTENSITY	70.	0.305555E 01	0.666800E-02	0.675002E 00	0.436507E-01	0.864286E-01	0.746991E-02	0.198000E 01
	VOLUME	70.	0.137199E 02	0.100000E-01	0.161000E 01	0.195999E 00	0.322316E 00	0.103897E 00	0.164447E 01
	DELTA	70.	0.924550E 04	0.650000E 01	0.118150E 04	0.132078E 03	0.202405E 03	0.409680E 05	0.153246E 01
57									
	DURATION	111.	0.456000E 03	0.100000E 01	0.320000E 02	0.410810E 01	0.542276E 01	0.294063E 02	0.132001E 01
	INTENSITY	111.	0.430027E 01	0.500000E-02	0.240004E 00	0.387412E-01	0.466055E-01	0.217207E-02	0.120299E 01
	VOLUME	111.	0.215798E 02	0.100000E-01	0.329000E 01	0.194413E 00	0.449628E 00	0.202165E 00	0.231274E 01
	DELTA	111.	0.840450E 04	0.450000E 01	0.422000E 03	0.757162E 02	0.967613E 02	0.936276E 04	0.127794E 01
58									
	DURATION	103.	0.497000E 03	0.100000E 01	0.230000E 02	0.482524E 01	0.495554E 01	0.245573E 02	0.102700E 01
	INTENSITY	103.	0.514908E 01	0.500100E-02	0.520004E 00	0.499910E-01	0.880508E-01	0.775294E-02	0.176133E 01
	VOLUME	103.	0.187999E 02	0.100000E-01	0.151000E 01	0.182523E 00	0.262636E 00	0.689776E-01	0.143891E 01
	DELTA	103.	0.932500E 04	0.400000E 01	0.902000E 03	0.905339E 02	0.133838E 03	0.179127E 05	0.147832E 01

59									
	DURATION	88.	0.504000E 03	0.100000E 01	0.420000E 02	0.572727E 01	0.745673E 01	0.556029E 02	0.130197E 01
	INTENSITY	88.	0.252017E 01	0.500100E-02	0.190004E 00	0.236383E-01	0.275740E-01	0.760328E-03	0.962836E 00
	VOLUME	88.	0.165399E 02	0.100000E-01	0.170000E 01	0.167953E 00	0.315179E 00	0.993378E-01	0.167689E 01
	DELTA	88.	0.864950E 04	0.400000E 01	0.660500E 03	0.982897E 02	0.117992E 03	0.139221E 05	0.120045E 01
60									
	DURATION	74.	0.442000E 03	0.100000E 01	0.290000E 02	0.597297E 01	0.733722E 01	0.538348E 02	0.122840E 01
	INTENSITY	74.	0.253314E 01	0.571400E-02	0.320002E 00	0.342322E-01	0.472798E-01	0.223538E-02	0.138115E 01
	VOLUME	74.	0.149799E 02	0.100000E-01	0.157000E 01	0.202431E 00	0.301883E 00	0.911336E-01	0.149128E 01
	DELTA	74.	0.881700E 04	0.550000E 01	0.510500E 03	0.119148E 03	0.134031E 03	0.179645E 05	0.112491E 01
61									
	DURATION	111.	0.519000E 03	0.100000E 01	0.330000E 02	0.467567E 01	0.584677E 01	0.341847E 02	0.125046E 01
	INTENSITY	111.	0.350319E 01	0.500100E-02	0.345002E 00	0.315602E-01	0.446170E-01	0.199057E-02	0.141370E 01
	VOLUME	111.	0.190099E 02	0.100000E-01	0.215000E 01	0.171260E 00	0.321136E 00	0.103128E 00	0.187513E 01
	DELTA	111.	0.872950E 04	0.400000E 01	0.523000E 03	0.786351E 02	0.100344E 03	0.100689E 05	0.127607E 01
62									
	DURATION	87.	0.319000E 03	0.100000E 01	0.270000E 02	0.366666E 01	0.439255E 01	0.192345E 02	0.119797E 01
	INTENSITY	87.	0.188887E 01	0.500000E-02	0.120002E 00	0.217112E-01	0.200854E-01	0.403426E-03	0.925118E 00
	VOLUME	87.	0.844395E 01	0.100000E-01	0.104000E 01	0.971259E-01	0.172099E 00	0.296182E-01	0.177192E 01
	DELTA	87.	0.872050E 04	0.500000E 01	0.741000E 03	0.100235E 03	0.133498E 03	0.178219E 05	0.133184E 01
63									
	DURATION	87.	0.362000E 03	0.100000E 01	0.290000E 02	0.416092E 01	0.549814E 01	0.302296E 02	0.132137E 01
	INTENSITY	87.	0.332084E 01	0.500100E-02	0.420004E 00	0.381711E-01	0.592150E-01	0.350542E-02	0.155130E 01
	VOLUME	87.	0.122237E 02	0.100000E-01	0.222000E 01	0.140574E 00	0.277338E 00	0.769168E-01	0.197290E 01
	DELTA	87.	0.887000E 04	0.450000E 01	0.621500E 03	0.101954E 03	0.145820E 03	0.212636E 05	0.143025E 01
64									
	DURATION	84.	0.355000E 03	0.100000E 01	0.290000E 02	0.422619E 01	0.555661E 01	0.308759E 02	0.131480E 01
	INTENSITY	84.	0.223807E 01	0.500100E-02	0.130005E 00	0.266437E-01	0.259012E-01	0.670972E-03	0.972131E 00
	VOLUME	84.	0.101599E 02	0.100000E-01	0.176000E 01	0.120713E 00	0.234313E 00	0.549028E-01	0.194106E 01
	DELTA	84.	0.875250E 04	0.500000E 01	0.556000E 03	0.104196E 03	0.114026E 03	0.130019E 05	0.109433E 01
65									
	DURATION	114.	0.532000E 03	0.100000E 01	0.370000E 02	0.466666E 01	0.569997E 01	0.324896E 02	0.122142E 01
	INTENSITY	114.	0.442006E 01	0.500100E-02	0.341667E 00	0.387725E-01	0.504913E-01	0.254937E-02	0.130224E 01
	VOLUME	114.	0.218694E 02	0.100000E-01	0.277000E 01	0.191841E 00	0.366855E 00	0.134582E 00	0.191228E 01
	DELTA	114.	0.865150E 04	0.500000E 01	0.918000E 03	0.758903E 02	0.121041E 03	0.146511E 05	0.159495E 01
66									
	DURATION	91.	0.289000E 03	0.100000E 01	0.160000E 02	0.317582E 01	0.333864E 01	0.111465E 02	0.105126E 01
	INTENSITY	91.	0.408537E 01	0.500000E-02	0.640004E 00	0.448941E-01	0.826990E-01	0.683912E-02	0.184208E 01
	VOLUME	91.	0.108094E 02	0.100000E-01	0.800000E 00	0.118790E 00	0.168383E 00	0.283529E-01	0.141747E 01
	DELTA	91.	0.886200E 04	0.400000E 01	0.660500E 03	0.973846E 02	0.133247E 03	0.177549E 05	0.136826E 01
67									
	DURATION	124.	0.477000E 03	0.100000E 01	0.260000E 02	0.384677E 01	0.455150E 01	0.207161E 02	0.118319E 01
	INTENSITY	124.	0.622834E 01	0.600100E-02	0.650001E 00	0.502293E-01	0.830309E-01	0.689413E-02	0.165303E 01
	VOLUME	124.	0.233098E 02	0.100000E-01	0.325000E 01	0.187982E 00	0.391811E 00	0.153515E 00	0.208429E 01
	DELTA	124.	0.882900E 04	0.400000E 01	0.550000E 03	0.712016E 02	0.941286E 02	0.886020E 04	0.132200E 01
68									
	DURATION	89.	0.363000E 03	0.100000E 01	0.270000E 02	0.407865E 01	0.468126E 01	0.219141E 02	0.114774E 01
	INTENSITY	89.	0.324160E 01	0.500100E-02	0.390002E 00	0.364224E-01	0.517360E-01	0.267662E-02	0.142044E 01
	VOLUME	89.	0.121299E 02	0.100000E-01	0.143000E 01	0.136291E 00	0.213383E 00	0.455324E-01	0.156564E 01
	DELTA	89.	0.878550E 04	0.400000E 01	0.405000E 03	0.987134E 02	0.106823E 03	0.114112E 05	0.108215E 01
69									
	DURATION	105.	0.497000E 03	0.100000E 01	0.580000E 02	0.473333E 01	0.819036E 01	0.670920E 02	0.173035E 01
	INTENSITY	105.	0.389684E 01	0.500100E-02	0.416668E 00	0.371128E-01	0.616595E-01	0.380189E-02	0.166140E 01
	VOLUME	105.	0.215098E 02	0.100000E-01	0.433000E 01	0.204855E 00	0.510391E 00	0.260999E 00	0.249146E 01
	DELTA	105.	0.874700E 04	0.400000E 01	0.420000E 03	0.833047E 02	0.930079E 02	0.865047E 04	0.111647E 01
70									
	DURATION	86.	0.374000E 03	0.100000E 01	0.220000E 02	0.434883E 01	0.471235E 01	0.222062E 02	0.108358E 01

INTENSITY	86.	0.265086E 01	0.473700E-02	0.190001E 00	0.308239E-01	0.339786E-01	0.115455E-02	0.110234E 01
VOLUME	86.	0.137299E 02	0.100000E-01	0.282000E 01	0.159650E 00	0.362936E 00	0.131722E 00	0.227331E 01
DELTA	86.	0.828500E 04	0.400000E 01	0.860500E 03	0.963372E 02	0.130546E 03	0.170424E 05	0.135510E 01
71								
DURATION	78.	0.398000E 03	0.100000E 01	0.400000E 02	0.510256E 01	0.687663E 01	0.472880E 02	0.134768E 01
INTENSITY	78.	0.264446E 01	0.600000E-02	0.760004E 00	0.339033E-01	0.905136E-01	0.819272E-02	0.266975E 01
VOLUME	78.	0.109599E 02	0.100000E-01	0.160000E 01	0.140512E 00	0.268893E 00	0.723034E-01	0.191366E 01
DELTA	78.	0.915750E 04	0.400000E 01	0.540000E 03	0.117403E 03	0.139766E 03	0.195346E 05	0.119047E 01
72								
DURATION	107.	0.431000E 03	0.100000E 01	0.240000E 02	0.402803E 01	0.504406E 01	0.254425E 02	0.125223E 01
INTENSITY	107.	0.373026E 01	0.500100E-02	0.302501E 00	0.348622E-01	0.487233E-01	0.237395E-02	0.139759E 01
VOLUME	107.	0.168699E 02	0.100000E-01	0.304000E 01	0.157662E 00	0.359712E 00	0.129392E 00	0.228153E 01
DELTA	107.	0.885900E 04	0.400000E 01	0.554000E 03	0.827944E 02	0.103978E 03	0.108115E 05	0.125586E 01
73								
DURATION	117.	0.554000E 03	0.100000E 01	0.330000E 02	0.473504E 01	0.637667E 01	0.406619E 02	0.134669E 01
INTENSITY	117.	0.437354E 01	0.500000E-02	0.530004E 00	0.373807E-01	0.732807E-01	0.537006E-02	0.196038E 01
VOLUME	117.	0.229598E 02	0.100000E-01	0.355000E 01	0.196238E 00	0.434959E 00	0.189189E 00	0.221648E 01
DELTA	117.	0.877600E 04	0.400000E 01	0.608500E 03	0.750085E 02	0.100784E 03	0.101574E 05	0.134363E 01

SUMMARY OF RAINFALL STATISTICS BY YEAR(FOR PERIOD OF RECORD)

YEAR	DURATION		INTENSITY		VOLUME		DELTA	
	AVERAGE	STD DEV	AVERAGE	STD DEV	AVERAGE	STD DEV	AVERAGE	STD DEV
48.	4.16	5.32	0.0301	0.0393	0.08	0.09	148.	191.
49.	4.82	7.80	0.0303	0.0339	0.15	0.28	77.	112.
50.	5.35	6.22	0.0427	0.0667	0.22	0.42	145.	156.
51.	4.53	5.11	0.0390	0.0798	0.17	0.39	79.	92.
52.	4.88	7.04	0.0291	0.0328	0.15	0.30	103.	125.
53.	4.75	6.03	0.0314	0.0450	0.16	0.29	100.	124.
54.	3.47	4.15	0.0354	0.0601	0.11	0.19	128.	147.
55.	4.29	5.73	0.0497	0.0546	0.19	0.32	99.	128.
56.	5.08	5.59	0.0456	0.0864	0.19	0.32	132.	202.
57.	4.10	5.42	0.0387	0.0466	0.19	0.44	75.	96.
58.	4.42	4.95	0.0499	0.0880	0.15	0.26	90.	133.
59.	5.72	7.45	0.0286	0.0275	0.18	0.31	98.	117.
60.	5.97	7.33	0.0342	0.0472	0.20	0.30	119.	134.
61.	4.67	5.84	0.0315	0.0446	0.17	0.32	78.	100.
62.	3.66	4.39	0.0217	0.0200	0.09	0.17	100.	133.
63.	4.16	5.49	0.0391	0.0592	0.14	0.27	101.	145.
64.	4.22	5.55	0.0266	0.0259	0.12	0.23	104.	114.
65.	4.66	5.69	0.0397	0.0504	0.19	0.36	75.	121.
66.	3.17	3.33	0.0448	0.0826	0.11	0.16	97.	133.
67.	3.84	4.55	0.0502	0.0830	0.18	0.39	71.	94.
68.	4.07	4.68	0.0364	0.0517	0.13	0.21	98.	106.
69.	4.73	8.19	0.0371	0.0616	0.20	0.51	83.	93.
70.	4.34	4.71	0.0304	0.0339	0.15	0.36	96.	130.
71.	5.10	6.87	0.0339	0.0905	0.14	0.26	117.	139.
72.	4.02	5.04	0.0348	0.0487	0.15	0.35	82.	105.
73.	4.73	6.37	0.0373	0.0732	0.19	0.43	75.	100.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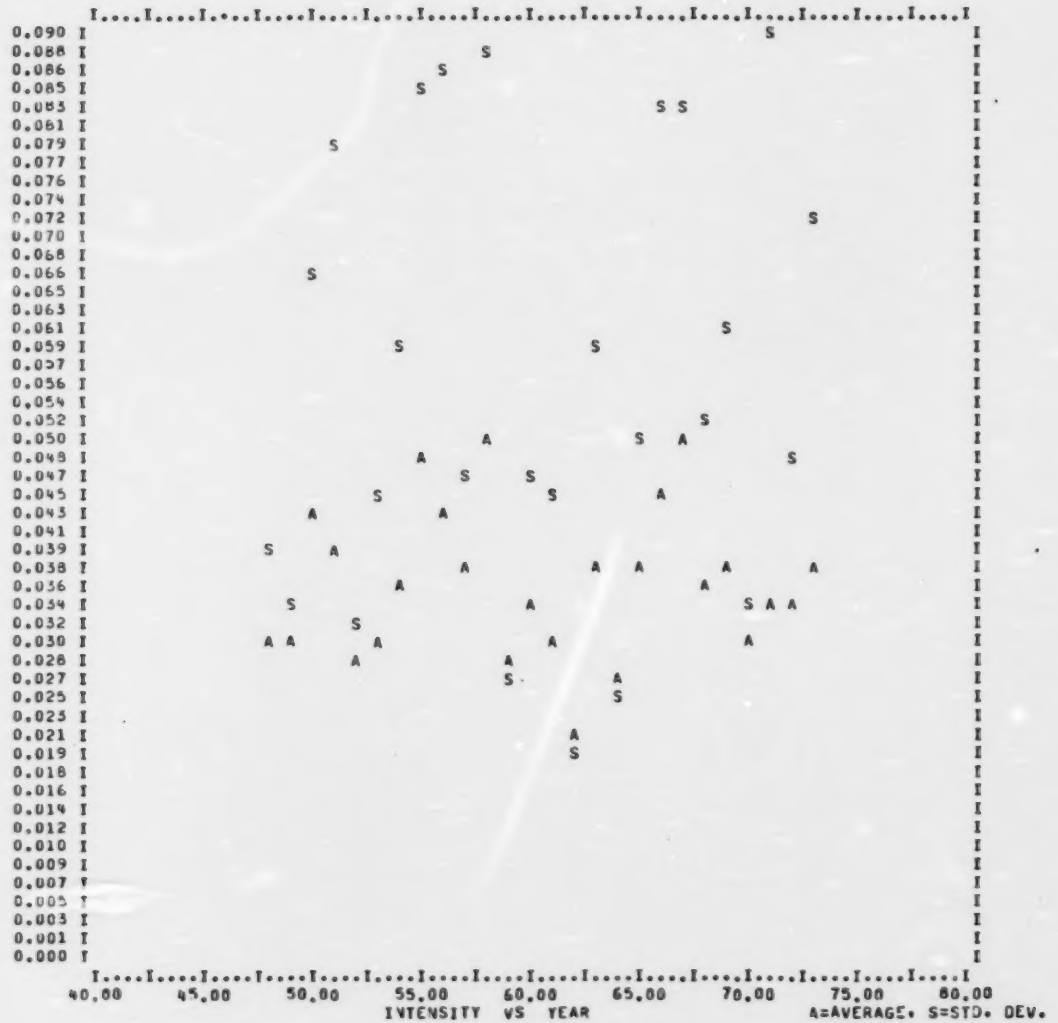
DURATION VS YEAR
A=AVERAGE, S=STD. DEV.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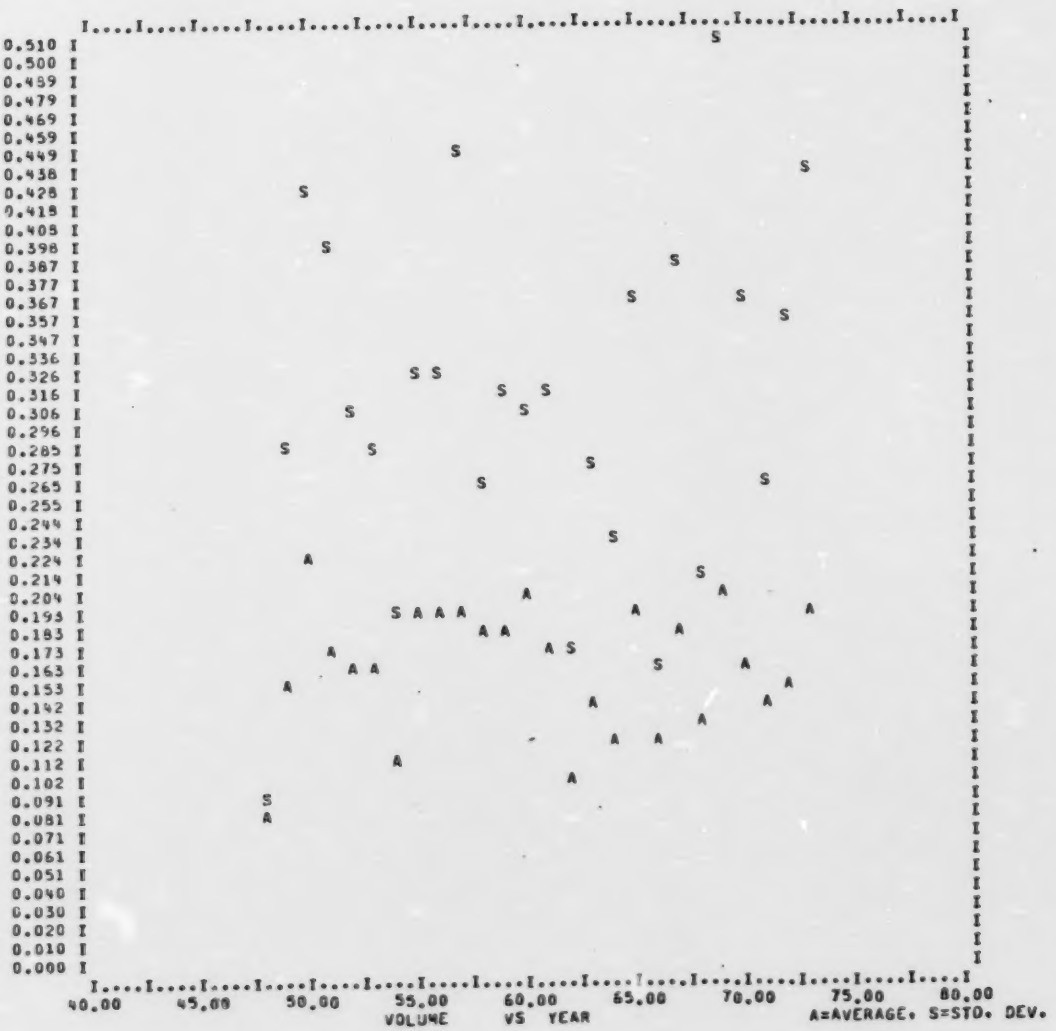
INTENSITY VS YEAR
A=AVERAGE, S=STD. DEV.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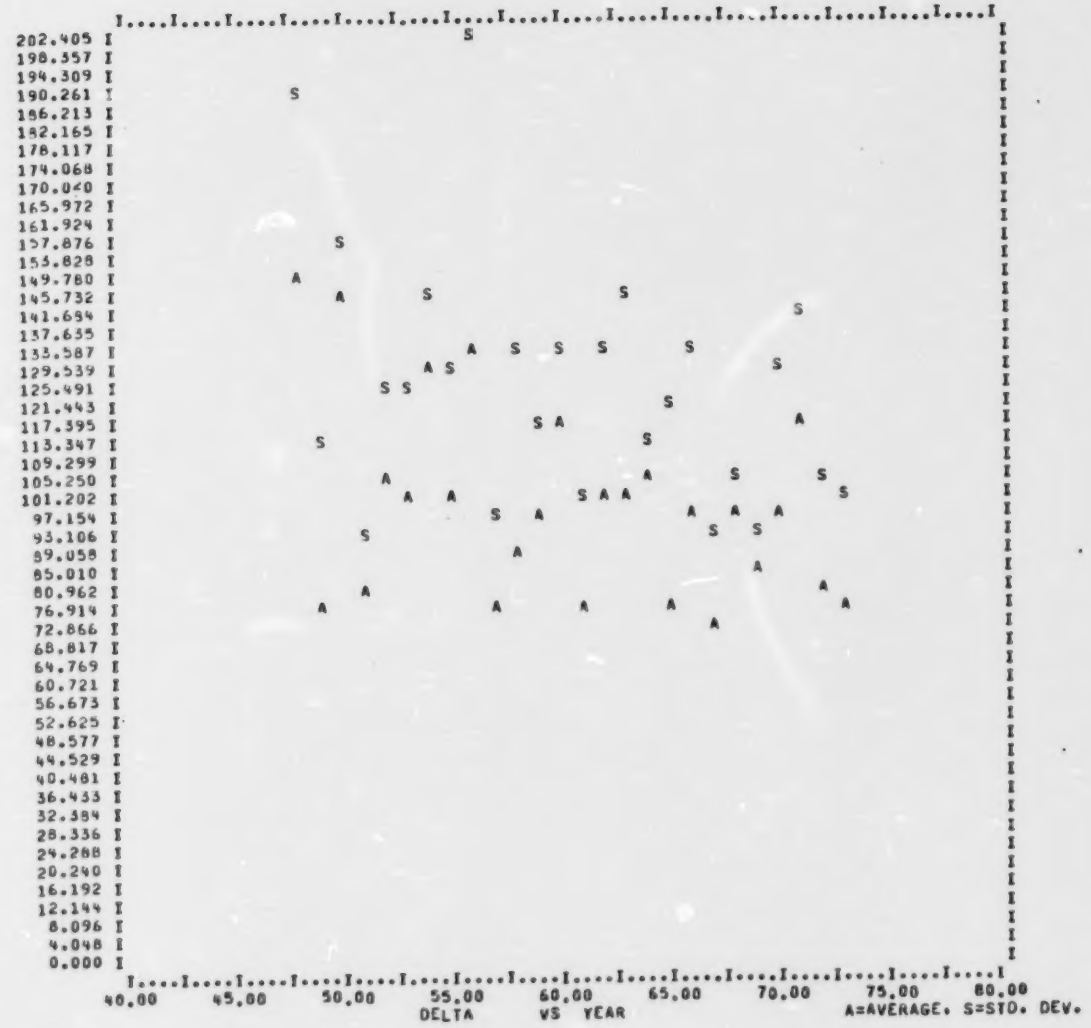
80.00
VOLUME VS YEAR
A=AVERAGE, S=STD. DEV.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DELTA VS YEAR
A=AVERAGE, S=STD. DEV.

PROBABILITY ANALYSIS-DURATION

PERCENTAGE OF OCCURRENCE LESS THAN OR EQUAL TO THE GIVEN VALUE OF DURATION

VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT
1.000	0.042	1.000	0.084	1.000	0.127	1.000	0.169	1.000	0.212	1.000	0.254	1.000	0.297	1.000	0.339
1.000	0.382	1.000	0.424	1.000	0.467	1.000	0.509	1.000	0.552	1.000	0.594	1.000	0.637	1.000	0.679
1.000	0.722	1.000	0.764	1.000	0.807	1.000	0.849	1.000	0.892	1.000	0.934	1.000	0.977	1.000	1.019
1.000	1.062	1.000	1.104	1.000	1.146	1.000	1.189	1.000	1.231	1.000	1.274	1.000	1.316	1.000	1.359
1.000	1.401	1.000	1.444	1.000	1.486	1.000	1.529	1.000	1.571	1.000	1.614	1.000	1.656	1.000	1.699
1.000	1.741	1.000	1.784	1.000	1.826	1.000	1.869	1.000	1.911	1.000	1.954	1.000	1.996	1.000	2.039
1.000	2.081	1.000	2.124	1.000	2.166	1.000	2.209	1.000	2.251	1.000	2.293	1.000	2.336	1.000	2.378
1.000	2.421	1.000	2.463	1.000	2.506	1.000	2.548	1.000	2.591	1.000	2.633	1.000	2.676	1.000	2.718
1.000	2.761	1.000	2.803	1.000	2.846	1.000	2.888	1.000	2.931	1.000	2.973	1.000	3.016	1.000	3.058
1.000	3.101	1.000	3.143	1.000	3.186	1.000	3.228	1.000	3.271	1.000	3.313	1.000	3.355	1.000	3.398
1.000	3.440	1.000	3.483	1.000	3.525	1.000	3.568	1.000	3.610	1.000	3.653	1.000	3.695	1.000	3.738
1.000	3.780	1.000	3.823	1.000	3.865	1.000	3.908	1.000	3.950	1.000	3.993	1.000	4.035	1.000	4.078
1.000	4.120	1.000	4.163	1.000	4.205	1.000	4.248	1.000	4.290	1.000	4.333	1.000	4.375	1.000	4.418
1.000	4.460	1.000	4.502	1.000	4.545	1.000	4.587	1.000	4.630	1.000	4.672	1.000	4.715	1.000	4.757
1.000	4.800	1.000	4.842	1.000	4.885	1.000	4.927	1.000	4.970	1.000	5.012	1.000	5.055	1.000	5.097
1.000	5.140	1.000	5.182	1.000	5.225	1.000	5.267	1.000	5.310	1.000	5.352	1.000	5.395	1.000	5.437
1.000	5.480	1.000	5.522	1.000	5.564	1.000	5.607	1.000	5.649	1.000	5.692	1.000	5.734	1.000	5.777
1.000	5.819	1.000	5.862	1.000	5.904	1.000	5.947	1.000	5.989	1.000	6.032	1.000	6.074	1.000	6.117
1.000	6.159	1.000	6.202	1.000	6.244	1.000	6.287	1.000	6.329	1.000	6.372	1.000	6.414	1.000	6.457
1.000	6.499	1.000	6.542	1.000	6.584	1.000	6.627	1.000	6.669	1.000	6.711	1.000	6.754	1.000	6.796
1.000	6.839	1.000	6.881	1.000	6.924	1.000	6.966	1.000	7.009	1.000	7.051	1.000	7.094	1.000	7.136
1.000	7.179	1.000	7.221	1.000	7.264	1.000	7.306	1.000	7.349	1.000	7.391	1.000	7.434	1.000	7.476
1.000	7.519	1.000	7.561	1.000	7.604	1.000	7.646	1.000	7.689	1.000	7.731	1.000	7.774	1.000	7.816
1.000	7.858	1.000	7.901	1.000	7.943	1.000	7.986	1.000	8.028	1.000	8.071	1.000	8.113	1.000	8.155
1.000	8.198	1.000	8.241	1.000	8.283	1.000	8.326	1.000	8.368	1.000	8.411	1.000	8.453	1.000	8.496
1.000	8.538	1.000	8.581	1.000	8.623	1.000	8.666	1.000	8.708	1.000	8.751	1.000	8.793	1.000	8.836
1.000	8.878	1.000	8.920	1.000	8.963	1.000	9.005	1.000	9.048	1.000	9.090	1.000	9.133	1.000	9.175
1.000	9.218	1.000	9.260	1.000	9.303	1.000	9.345	1.000	9.388	1.000	9.430	1.000	9.473	1.000	9.515
1.000	9.558	1.000	9.600	1.000	9.643	1.000	9.685	1.000	9.728	1.000	9.770	1.000	9.813	1.000	9.855
1.000	9.898	1.000	9.940	1.000	9.983	1.000	10.025	1.000	10.067	1.000	10.110	1.000	10.152	1.000	10.195
1.000	10.237	1.000	10.280	1.000	10.322	1.000	10.365	1.000	10.407	1.000	10.450	1.000	10.492	1.000	10.535
1.000	10.577	1.000	10.620	1.000	10.662	1.000	10.705	1.000	10.747	1.000	10.790	1.000	10.832	1.000	10.875
1.000	10.917	1.000	10.960	1.000	11.002	1.000	11.045	1.000	11.087	1.000	11.129	1.000	11.172	1.000	11.214
1.000	11.257	1.000	11.299	1.000	11.342	1.000	11.384	1.000	11.427	1.000	11.469	1.000	11.512	1.000	11.554
1.000	11.597	1.000	11.639	1.000	11.682	1.000	11.724	1.000	11.767	1.000	11.809	1.000	11.852	1.000	11.894
1.000	11.937	1.000	11.979	1.000	12.022	1.000	12.064	1.000	12.107	1.000	12.149	1.000	12.192	1.000	12.234
1.000	12.276	1.000	12.319	1.000	12.361	1.000	12.404	1.000	12.446	1.000	12.489	1.000	12.531	1.000	12.574
1.000	12.616	1.000	12.659	1.000	12.701	1.000	12.744	1.000	12.786	1.000	12.829	1.000	12.871	1.000	12.914
1.000	12.956	1.000	12.999	1.000	13.041	1.000	13.084	1.000	13.126	1.000	13.169	1.000	13.211	1.000	13.254
1.000	13.296	1.000	13.338	1.000	13.381	1.000	13.423	1.000	13.466	1.000	13.508	1.000	13.551	1.000	13.593
1.000	13.636	1.000	13.678	1.000	13.721	1.000	13.763	1.000	13.806	1.000	13.848	1.000	13.891	1.000	13.933
1.000	13.976	1.000	14.018	1.000	14.061	1.000	14.103	1.000	14.146	1.000	14.188	1.000	14.231	1.000	14.273
1.000	14.316	1.000	14.358	1.000	14.401	1.000	14.443	1.000	14.485	1.000	14.528	1.000	14.570	1.000	14.613
1.000	14.655	1.000	14.698	1.000	14.740	1.000	14.783	1.000	14.825	1.000	14.868	1.000	14.910	1.000	14.953
1.000	14.995	1.000	15.038	1.000	15.080	1.000	15.123	1.000	15.165	1.000	15.208	1.000	15.250	1.000	15.293
1.000	15.335	1.000	15.378	1.000	15.420	1.000	15.463	1.000	15.505	1.000	15.548	1.000	15.590	1.000	15.632
1.000	15.675	1.000	15.717	1.000	15.760	1.000	15.802	1.000	15.845	1.000	15.887	1.000	15.930	1.000	15.972
1.000	16.015	1.000	16.057	1.000	16.100	1.000	16.142	1.000	16.185	1.000	16.227	1.000	16.270	1.000	16.312
1.000	16.355	1.000	16.397	1.000	16.440	1.000	16.482	1.000	16.525	1.000	16.567	1.000	16.610	1.000	16.652
1.000	16.694	1.000	16.737	1.000	16.779	1.000	16.822	1.000	16.864	1.000	16.907	1.000	16.949	1.000	16.992
1.000	17.034	1.000	17.077	1.000	17.119	1.000	17.162	1.000	17.204	1.000	17.247	1.000	17.289	1.000	17.332

1.000	17.374	1.000	17.417	1.000	17.459	1.000	17.502	1.000	17.544	1.000	17.587	1.000	17.629	1.000	17.672
1.000	17.714	1.000	17.757	1.000	17.799	1.000	17.841	1.000	17.884	1.000	17.926	1.000	17.969	1.000	18.011
1.000	18.054	1.000	18.096	1.000	18.139	1.000	18.181	1.000	18.224	1.000	18.266	1.000	18.309	1.000	18.351
1.000	18.394	1.000	18.436	1.000	18.479	1.000	18.521	1.000	18.564	1.000	18.606	1.000	18.649	1.000	18.691
1.000	18.734	1.000	18.776	1.000	18.819	1.000	18.861	1.000	18.903	1.000	18.946	1.000	18.988	1.000	19.031
1.000	19.073	1.000	19.116	1.000	19.158	1.000	19.201	1.000	19.243	1.000	19.286	1.000	19.328	1.000	19.371
1.000	19.413	1.000	19.456	1.000	19.498	1.000	19.541	1.000	19.583	1.000	19.626	1.000	19.668	1.000	19.711
1.000	19.753	1.000	19.796	1.000	19.838	1.000	19.881	1.000	19.923	1.000	19.966	1.000	20.008	1.000	20.050
1.000	20.093	1.000	20.135	1.000	20.178	1.000	20.220	1.000	20.263	1.000	20.305	1.000	20.348	1.000	20.390
1.000	20.433	1.000	20.475	1.000	20.518	1.000	20.560	1.000	20.603	1.000	20.645	1.000	20.688	1.000	20.730
1.000	20.773	1.000	20.815	1.000	20.858	1.000	20.900	1.000	20.943	1.000	20.985	1.000	21.028	1.000	21.070
1.000	21.113	1.000	21.155	1.000	21.197	1.000	21.240	1.000	21.282	1.000	21.325	1.000	21.367	1.000	21.410
1.000	21.452	1.000	21.495	1.000	21.537	1.000	21.580	1.000	21.622	1.000	21.665	1.000	21.707	1.000	21.750
1.000	21.792	1.000	21.835	1.000	21.877	1.000	21.920	1.000	21.962	1.000	22.005	1.000	22.047	1.000	22.090
1.000	22.132	1.000	22.175	1.000	22.217	1.000	22.259	1.000	22.302	1.000	22.344	1.000	22.387	1.000	22.429
1.000	22.472	1.000	22.514	1.000	22.557	1.000	22.599	1.000	22.642	1.000	22.684	1.000	22.727	1.000	22.769
1.000	22.812	1.000	22.854	1.000	22.897	1.000	22.939	1.000	22.982	1.000	23.024	1.000	23.067	1.000	23.109
1.000	23.152	1.000	23.194	1.000	23.237	1.000	23.279	1.000	23.322	1.000	23.364	1.000	23.406	1.000	23.449
1.000	23.491	1.000	23.534	1.000	23.576	1.000	23.619	1.000	23.661	1.000	23.704	1.000	23.746	1.000	23.789
1.000	23.831	1.000	23.874	1.000	23.916	1.000	23.959	1.000	24.001	1.000	24.044	1.000	24.086	1.000	24.129
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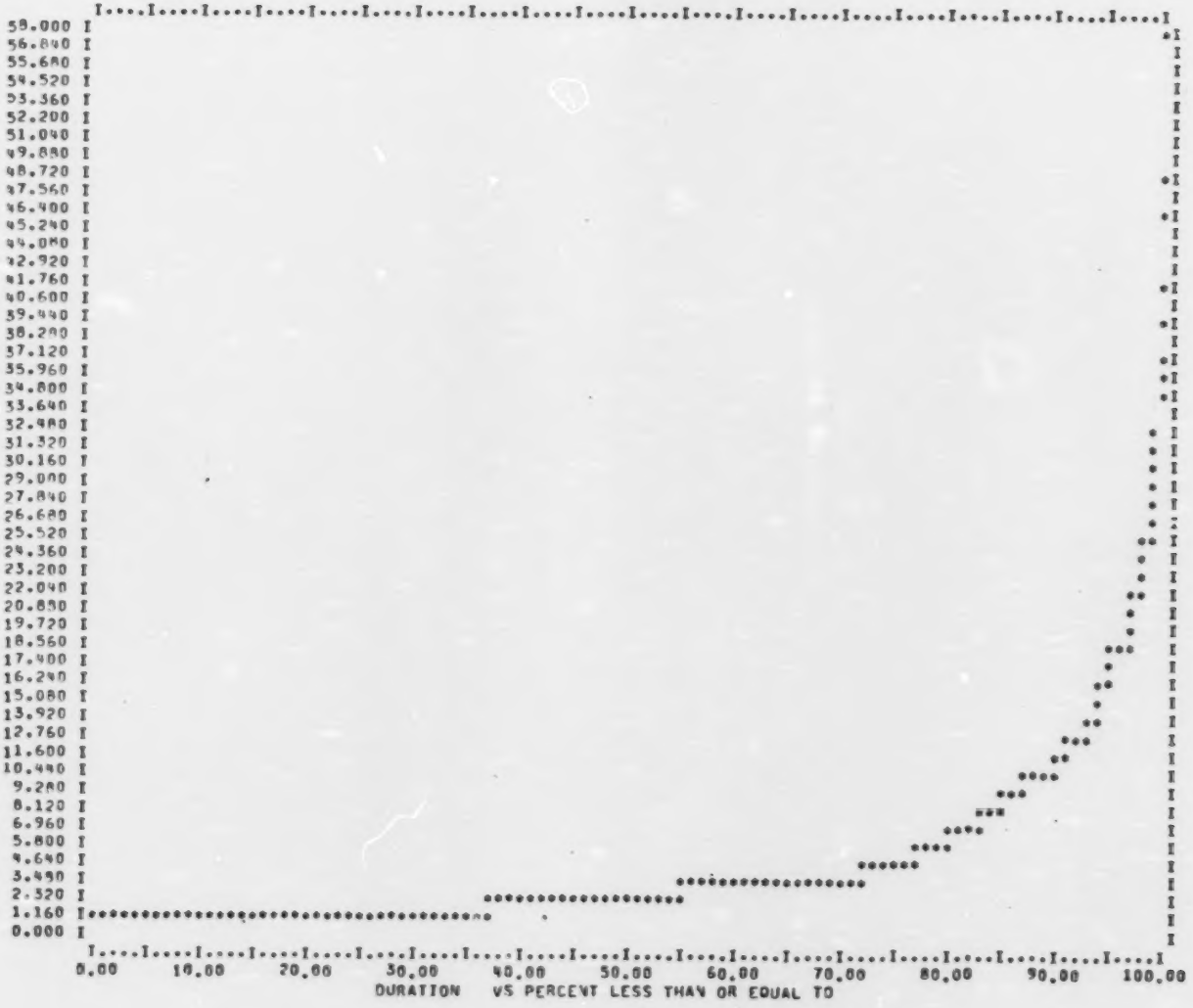
1.000	24.511	1.000	24.553	1.000	24.596	1.000	24.638	1.000	24.681	1.000	24.723	1.000	24.766	1.000	24.809
1.000	24.851	1.000	24.893	1.000	24.936	1.000	24.978	1.000	25.021	1.000	25.063	1.000	25.106	1.000	25.148
1.000	25.191	1.000	25.233	1.000	25.276	1.000	25.318	1.000	25.361	1.000	25.403	1.000	25.446	1.000	25.488
1.000	25.531	1.000	25.573	1.000	25.615	1.000	25.658	1.000	25.700	1.000	25.743	1.000	25.785	1.000	25.828
1.000	25.870	1.000	25.913	1.000	25.955	1.000	25.998	1.000	26.040	1.000	26.083	1.000	26.125	1.000	26.168
1.000	26.210	1.000	26.253	1.000	26.295	1.000	26.338	1.000	26.380	1.000	26.423	1.000	26.465	1.000	26.508
1.000	26.550	1.000	26.593	1.000	26.635	1.000	26.677	1.000	26.720	1.000	26.762	1.000	26.805	1.000	26.847
1.000	26.890	1.000	26.932	1.000	26.975	1.000	27.017	1.000	27.060	1.000	27.102	1.000	27.145	1.000	27.187
1.000	27.230	1.000	27.272	1.000	27.315	1.000	27.357	1.000	27.400	1.000	27.442	1.000	27.485	1.000	27.527
1.000	27.570	1.000	27.612	1.000	27.655	1.000	27.697	1.000	27.740	1.000	27.782	1.000	27.824	1.000	27.867
1.000	27.909	1.000	27.952	1.000	27.994	1.000	28.037	1.000	28.079	1.000	28.122	1.000	28.164	1.000	28.207
1.000	28.249	1.000	28.292	1.000	28.334	1.000	28.377	1.000	28.419	1.000	28.462	1.000	28.504	1.000	28.547
1.000	28.589	1.000	28.632	1.000	28.674	1.000	28.717	1.000	28.759	1.000	28.802	1.000	28.844	1.000	28.887
1.000	28.929	1.000	28.971	1.000	29.014	1.000	29.056	1.000	29.099	1.000	29.141	1.000	29.184	1.000	29.226
1.000	29.269	1.000	29.311	1.000	29.354	1.000	29.396	1.000	29.439	1.000	29.481	1.000	29.524	1.000	29.565
1.000	29.609	1.000	29.651	1.000	29.694	1.000	29.736	1.000	29.779	1.000	29.821	1.000	29.864	1.000	29.906
1.000	29.949	1.000	29.991	1.000	30.033	1.000	30.076	1.000	30.118	1.000	30.161	1.000	30.203	1.000	30.246
1.000	30.288	1.000	30.331	1.000	30.373	1.000	30.416	1.000	30.458	1.000	30.501	1.000	30.543	1.000	30.586
1.000	30.628	1.000	30.671	1.000	30.713	1.000	30.756	1.000	30.798	1.000	30.841	1.000	30.883	1.000	30.926
1.000	30.968	1.000	31.011	1.000	31.053	1.000	31.096	1.000	31.138	1.000	31.180	1.000	31.223	1.000	31.265
1.000	31.308	1.000	31.350	1.000	31.393	1.000	31.435	1.000	31.478	1.000	31.520	1.000	31.563	1.000	31.605
1.000	31.648	1.000	31.690	1.000	31.733	1.000	31.775	1.000	31.818	1.000	31.860	1.000	31.903	1.000	31.945
1.000	31.986	1.000	32.030	1.000	32.073	1.000	32.115	1.000	32.158	1.000	32.200	1.000	32.242	1.000	32.285
1.000	32.327	1.000	32.370	1.000	32.412	1.000	32.455	1.000	32.497	1.000	32.540	1.000	32.582	1.000	32.625
1.000	32.667	1.000	32.710	1.000	32.752	1.000	32.795	1.000	32.837	1.000	32.880	1.000	32.922	1.000	32.965
1.000	33.007	1.000	33.050	1.000	33.092	1.000	33.135	1.000	33.177	1.000	33.220	1.000	33.262	1.000	33.305
1.000	33.347	1.000	33.389	1.000	33.432	1.000	33.474	1.000	33.517	1.000	33.559	1.000	33.602	1.000	33.644
1.000	33.687	1.000	33.729	1.000	33.772	1.000	33.814	1.000	33.857	1.000	33.899	1.000	33.942	1.000	33.984
1.000	34.027	1.000	34.069	1.000	34.112	1.000	34.154	1.000	34.197	1.000	34.239	1.000	34.282	1.000	34.324
1.000	34.367	1.000	34.409	1.000	34.452	1.000	34.494	1.000	34.536	1.000	34.579	1.000	34.621	1.000	34.664
1.000	34.706	1.000	34.749	1.000	34.791	1.000	34.834	1.000	34.876	1.000	34.919	1.000	34.961	1.000	35.004
1.000	35.046	1.000	35.089	1.000	35.131	1.000	35.174	1.000	35.216	1.000	35.259	1.000	35.301	1.000	35.344
1.000	35.386	1.000	35.429	1.000	35.471	1.000	35.514	1.000	35.556	1.000	35.598	1.000	35.641	1.000	35.683
1.000	35.726	1.000	35.768	1.000	35.811	1.000	35.853	1.000	35.896	1.000	35.938	1.000	35.981	1.000	36.023
1.000	36.066	1.000	36.108	1.000	36.151	1.000	36.193	1.000	36.236	1.000	36.278	1.000	36.321	1.000	36.363
1.000	36.406	1.000	36.448	1.000	36.491	1.000	36.533	1.000	36.576	1.000	36.618	1.000	36.661	1.000	36.703

1.000	36.745	2.000	36.788	2.000	36.830	2.000	36.873	2.000	36.915	2.000	36.958	2.000	37.000	2.000	37.043
2.000	37.085	2.000	37.128	2.000	37.170	2.000	37.213	2.000	37.255	2.000	37.298	2.000	37.340	2.000	37.383
2.000	37.425	2.000	37.468	2.000	37.510	2.000	37.553	2.000	37.595	2.000	37.638	2.000	37.680	2.000	37.723
2.000	37.765	2.000	37.807	2.000	37.850	2.000	37.892	2.000	37.935	2.000	37.977	2.000	38.020	2.000	38.062
2.000	38.105	2.000	38.147	2.000	38.190	2.000	38.232	2.000	38.275	2.000	38.317	2.000	38.360	2.000	38.402
2.000	38.445	2.000	38.487	2.000	38.530	2.000	38.572	2.000	38.615	2.000	38.657	2.000	38.700	2.000	38.742
2.000	38.785	2.000	38.827	2.000	38.870	2.000	38.912	2.000	38.954	2.000	38.997	2.000	39.039	2.000	39.082
2.000	39.124	2.000	39.167	2.000	39.209	2.000	39.252	2.000	39.294	2.000	39.337	2.000	39.379	2.000	39.422
2.000	39.464	2.000	39.507	2.000	39.549	2.000	39.592	2.000	39.634	2.000	39.677	2.000	39.719	2.000	39.762
2.000	39.804	2.000	39.847	2.000	39.889	2.000	39.932	2.000	39.974	2.000	40.016	2.000	40.059	2.000	40.101
2.000	40.144	2.000	40.186	2.000	40.229	2.000	40.271	2.000	40.314	2.000	40.356	2.000	40.399	2.000	40.441
2.000	40.484	2.000	40.526	2.000	40.569	2.000	40.611	2.000	40.654	2.000	40.696	2.000	40.739	2.000	40.781
2.000	40.824	2.000	40.866	2.000	40.909	2.000	40.951	2.000	40.994	2.000	41.036	2.000	41.079	2.000	41.121
2.000	41.163	2.000	41.206	2.000	41.248	2.000	41.291	2.000	41.333	2.000	41.376	2.000	41.418	2.000	41.461
2.000	41.503	2.000	41.546	2.000	41.588	2.000	41.631	2.000	41.673	2.000	41.716	2.000	41.758	2.000	41.801
2.000	41.843	2.000	41.886	2.000	41.928	2.000	41.971	2.000	42.013	2.000	42.056	2.000	42.098	2.000	42.141
2.000	42.183	2.000	42.226	2.000	42.268	2.000	42.310	2.000	42.353	2.000	42.395	2.000	42.438	2.000	42.480
2.000	42.523	2.000	42.565	2.000	42.608	2.000	42.650	2.000	42.693	2.000	42.735	2.000	42.778	2.000	42.820
2.000	42.863	2.000	42.905	2.000	42.948	2.000	42.990	2.000	43.033	2.000	43.075	2.000	43.118	2.000	43.160
2.000	43.203	2.000	43.245	2.000	43.288	2.000	43.330	2.000	43.372	2.000	43.415	2.000	43.457	2.000	43.500
2.000	43.542	2.000	43.585	2.000	43.627	2.000	43.670	2.000	43.712	2.000	43.755	2.000	43.797	2.000	43.840
2.000	43.882	2.000	43.925	2.000	43.967	2.000	44.010	2.000	44.052	2.000	44.095	2.000	44.137	2.000	44.180
2.000	44.222	2.000	44.265	2.000	44.307	2.000	44.350	2.000	44.392	2.000	44.435	2.000	44.477	2.000	44.519
2.000	44.562	2.000	44.604	2.000	44.647	2.000	44.689	2.000	44.732	2.000	44.774	2.000	44.817	2.000	44.859
2.000	44.902	2.000	44.944	2.000	44.987	2.000	45.029	2.000	45.072	2.000	45.114	2.000	45.157	2.000	45.199
2.000	45.242	2.000	45.284	2.000	45.327	2.000	45.369	2.000	45.412	2.000	45.454	2.000	45.497	2.000	45.539
2.000	45.581	2.000	45.624	2.000	45.666	2.000	45.709	2.000	45.751	2.000	45.794	2.000	45.836	2.000	45.879
2.000	45.921	2.000	45.964	2.000	46.006	2.000	46.049	2.000	46.091	2.000	46.134	2.000	46.176	2.000	46.219
2.000	46.261	2.000	46.304	2.000	46.346	2.000	46.389	2.000	46.431	2.000	46.474	2.000	46.516	2.000	46.559
2.000	46.601	2.000	46.644	2.000	46.686	2.000	46.728	2.000	46.771	2.000	46.813	2.000	46.856	2.000	46.898
2.000	46.941	2.000	46.983	2.000	47.026	2.000	47.068	2.000	47.111	2.000	47.153	2.000	47.196	2.000	47.238
2.000	47.281	2.000	47.323	2.000	47.366	2.000	47.408	2.000	47.451	2.000	47.493	2.000	47.536	2.000	47.578
2.000	47.621	2.000	47.663	2.000	47.706	2.000	47.748	2.000	47.791	2.000	47.833	2.000	47.875	2.000	47.918
2.000	47.960	2.000	48.003	2.000	48.045	2.000	48.088	2.000	48.130	2.000	48.173	2.000	48.215	2.000	48.258
2.000	48.300	2.000	48.343	2.000	48.385	2.000	48.428	2.000	48.470	2.000	48.513	2.000	48.555	2.000	48.598
2.000	48.640	2.000	48.683	2.000	48.725	2.000	48.768	2.000	48.810	2.000	48.853	2.000	48.895	2.000	48.937
2.000	48.980	2.000	49.022	2.000	49.065	2.000	49.107	2.000	49.150	2.000	49.192	2.000	49.235	2.000	49.277
2.000	49.320	2.000	49.362	2.000	49.405	2.000	49.447	2.000	49.490	2.000	49.532	2.000	49.575	2.000	49.617
2.000	49.660	2.000	49.702	2.000	49.745	2.000	49.787	2.000	49.830	2.000	49.872	2.000	49.915	2.000	49.957
2.000	50.000	2.000	50.042	2.000	50.084	2.000	50.127	2.000	50.169	2.000	50.212	2.000	50.254	2.000	50.297
2.000	50.339	2.000	50.382	2.000	50.424	2.000	50.467	2.000	50.509	2.000	50.552	2.000	50.594	2.000	50.637
2.000	50.679	2.000	50.722	2.000	50.764	2.000	50.807	2.000	50.849	2.000	50.892	2.000	50.934	2.000	50.977
2.000	51.019	2.000	51.062	2.000	51.104	2.000	51.146	2.000	51.189	2.000	51.231	2.000	51.274	2.000	51.316
2.000	51.359	2.000	51.401	2.000	51.444	2.000	51.486	2.000	51.529	2.000	51.571	2.000	51.614	2.000	51.656
2.000	51.699	2.000	51.741	2.000	51.784	2.000	51.826	2.000	51.869	2.000	51.911	2.000	51.954	2.000	51.996
2.000	52.039	2.000	52.081	2.000	52.124	2.000	52.166	2.000	52.209	2.000	52.251	2.000	52.293	2.000	52.336
2.000	52.378	2.000	52.421	2.000	52.463	2.000	52.506	2.000	52.548	2.000	52.591	2.000	52.633	2.000	52.676
2.000	52.718	2.000	52.761	2.000	52.803	2.000	52.846	2.000	52.888	2.000	52.931	2.000	52.973	2.000	53.015
2.000	53.058	2.000	53.101	2.000	53.143	2.000	53.186	2.000	53.228	2.000	53.271	2.000	53.313	2.000	53.355
2.000	53.398	2.000	53.440	2.000	53.483	2.000	53.525	2.000	53.568	2.000	53.610	2.000	53.653	2.000	53.695
2.000	53.738	2.000	53.780	2.000	53.823	2.000	53.865	2.000	53.908	2.000	53.950	2.000	53.993	2.000	54.035
2.000	54.078	2.000	54.120	2.000	54.163	2.000	54.205	2.000	54.248	2.000	54.290	2.000	54.333	2.000	54.375
2.000	54.418	2.000	54.460	2.000	54.502	2.000	54.545	2.000	54.587	2.000	54.630	2.000	54.672	3.000	54.715
3.000	54.757	3.000	54.800	3.000	54.842	3.000	54.885	3.000	54.927	3.000	54.970	3.000	55.012	3.000	55.055
3.000	55.097	3.000	55.140	3.000	55.182	3.000	55.225	3.000	55.267	3.000	55.310	3.000	55.352	3.000	55.395
3.000	55.437	3.000	55.480	3.000	55.522	3.000	55.565	3.000	55.607	3.000	55.649	3.000	55.692	3.000	55.734
3.000	55.777	3.000	55.819	3.000	55.862	3.000	55.904	3.000	55.947	3.000	55.989	3.000	56.032	3.000	56.074

3.000	56.117	3.000	56.159	3.000	56.202	3.000	56.244	3.000	56.287	3.000	56.329	3.000	56.372	3.000	56.414
3.000	56.457	3.000	56.499	3.000	56.542	3.000	56.584	3.000	56.627	3.000	56.669	3.000	56.711	3.000	56.754
3.000	56.796	3.000	56.839	3.000	56.881	3.000	56.924	3.000	56.966	3.000	57.009	3.000	57.051	3.000	57.094
3.000	57.136	3.000	57.179	3.000	57.221	3.000	57.264	3.000	57.306	3.000	57.349	3.000	57.391	3.000	57.434
3.000	57.476	3.000	57.519	3.000	57.561	3.000	57.604	3.000	57.646	3.000	57.689	3.000	57.731	3.000	57.774
3.000	57.816	3.000	57.858	3.000	57.901	3.000	57.943	3.000	57.986	3.000	58.028	3.000	58.071	3.000	58.113
3.000	58.156	3.000	58.198	3.000	58.241	3.000	58.283	3.000	58.326	3.000	58.368	3.000	58.411	3.000	58.453
3.000	58.496	3.000	58.538	3.000	58.581	3.000	58.623	3.000	58.666	3.000	58.708	3.000	58.751	3.000	58.793
3.000	58.836	3.000	58.878	3.000	58.920	3.000	58.963	3.000	59.005	3.000	59.048	3.000	59.090	3.000	59.133
3.000	59.175	3.000	59.218	3.000	59.260	3.000	59.303	3.000	59.345	3.000	59.388	3.000	59.430	3.000	59.473
3.000	59.515	3.000	59.558	3.000	59.600	3.000	59.643	3.000	59.685	3.000	59.728	3.000	59.770	3.000	59.813
3.000	59.855	3.000	59.898	3.000	59.940	3.000	59.983	3.000	60.025	3.000	60.067	3.000	60.110	3.000	60.152
3.000	60.195	3.000	60.237	3.000	60.280	3.000	60.322	3.000	60.365	3.000	60.407	3.000	60.450	3.000	60.492
3.000	60.535	3.000	60.577	3.000	60.620	3.000	60.662	3.000	60.705	3.000	60.747	3.000	60.790	3.000	60.832
3.000	60.875	3.000	60.917	3.000	60.960	3.000	61.002	3.000	61.045	3.000	61.087	3.000	61.129	3.000	61.172
3.000	61.214	3.000	61.257	3.000	61.299	3.000	61.342	3.000	61.384	3.000	61.427	3.000	61.469	3.000	61.512
3.000	61.554	3.000	61.597	3.000	61.639	3.000	61.682	3.000	61.724	3.000	61.767	3.000	61.809	3.000	61.852
3.000	61.894	3.000	61.937	3.000	61.979	3.000	62.022	3.000	62.064	3.000	62.107	3.000	62.149	3.000	62.192
3.000	62.234	3.000	62.276	3.000	62.319	3.000	62.361	3.000	62.404	3.000	62.446	3.000	62.489	3.000	62.531
3.000	62.574	3.000	62.616	3.000	62.659	3.000	62.701	3.000	62.744	3.000	62.786	3.000	62.829	3.000	62.871
3.000	62.914	3.000	62.956	3.000	62.999	3.000	63.041	3.000	63.084	3.000	63.126	3.000	63.169	3.000	63.211
3.000	63.254	3.000	63.296	3.000	63.339	3.000	63.381	3.000	63.423	3.000	63.466	3.000	63.508	3.000	63.551
3.000	63.593	3.000	63.636	3.000	63.678	3.000	63.721	3.000	63.763	3.000	63.806	3.000	63.848	3.000	63.891
3.000	63.933	3.000	63.976	3.000	64.018	3.000	64.061	3.000	64.103	3.000	64.146	3.000	64.188	3.000	64.231
3.000	64.273	3.000	64.316	3.000	64.358	3.000	64.401	3.000	64.443	3.000	64.485	3.000	64.528	3.000	64.570
3.000	64.613	3.000	64.655	3.000	64.698	3.000	64.740	3.000	64.783	3.000	64.825	3.000	64.868	3.000	64.910
3.000	64.953	3.000	64.995	3.000	65.038	3.000	65.080	3.000	65.123	3.000	65.165	3.000	65.208	3.000	65.250
3.000	65.293	3.000	65.335	3.000	65.378	3.000	65.420	3.000	65.463	3.000	65.505	3.000	65.548	3.000	65.590
3.000	65.632	3.000	65.675	3.000	65.717	3.000	65.760	3.000	65.802	3.000	65.845	3.000	65.887	3.000	65.930
3.000	65.972	3.000	66.015	3.000	66.057	3.000	66.100	3.000	66.142	3.000	66.185	3.000	66.227	3.000	66.270
3.000	66.312	3.000	66.355	3.000	66.397	3.000	66.440	3.000	66.482	3.000	66.525	3.000	66.567	3.000	66.610
3.000	66.652	3.000	66.694	3.000	66.737	3.000	66.779	3.000	66.822	3.000	66.864	3.000	66.907	3.000	66.949
3.000	66.992	3.000	67.034	3.000	67.077	3.000	67.119	3.000	67.162	3.000	67.204	3.000	67.247	3.000	67.289
3.000	67.332	3.000	67.374	3.000	67.417	3.000	67.459	3.000	67.502	3.000	67.544	3.000	67.587	3.000	67.629
3.000	67.672	3.000	67.714	3.000	67.757	3.000	67.799	3.000	67.841	3.000	67.884	3.000	67.926	3.000	67.969
3.000	68.011	3.000	68.054	3.000	68.096	3.000	68.139	3.000	68.181	3.000	68.224	3.000	68.266	3.000	68.309
3.000	68.351	3.000	68.394	3.000	68.436	3.000	68.479	3.000	68.521	3.000	68.564	3.000	68.606	3.000	68.649
3.000	68.691	3.000	68.734	3.000	68.776	3.000	68.819	3.000	68.861	3.000	68.904	3.000	68.946	3.000	68.989
3.000	69.031	3.000	69.073	3.000	69.116	3.000	69.158	3.000	69.201	3.000	69.243	3.000	69.286	3.000	69.328
3.000	69.371	3.000	69.413	3.000	69.456	3.000	69.498	3.000	69.541	3.000	69.583	3.000	69.626	3.000	69.668
3.000	69.711	3.000	69.753	3.000	69.796	3.000	69.838	3.000	69.881	3.000	69.923	3.000	69.966	3.000	70.009
3.000	70.050	3.000	70.093	3.000	70.135	3.000	70.178	3.000	70.220	3.000	70.263	3.000	70.305	3.000	70.348
3.000	70.390	3.000	70.433	3.000	70.475	3.000	70.518	3.000	70.560	3.000	70.603	3.000	70.645	3.000	70.688
3.000	70.730	3.000	70.773	3.000	70.815	3.000	70.858	3.000	70.900	3.000	70.943	3.000	70.985	3.000	71.028
3.000	71.070	3.000	71.113	3.000	71.155	3.000	71.197	3.000	71.240	3.000	71.282	3.000	71.325	3.000	71.367
3.000	71.410	3.000	71.452	3.000	71.495	3.000	71.537	3.000	71.580	3.000	71.622	3.000	71.665	3.000	71.707
5.000	71.750	5.000	71.792	5.000	71.835	5.000	71.877	5.000	71.920	5.000	71.962	5.000	72.005	5.000	72.047
5.000	72.090	5.000	72.132	5.000	72.175	5.000	72.217	5.000	72.259	5.000	72.302	5.000	72.344	5.000	72.387
5.000	72.429	5.000	72.472	5.000	72.514	5.000	72.557	5.000	72.599	5.000	72.642	5.000	72.684	5.000	72.727
5.000	72.769	5.000	72.812	5.000	72.854	5.000	72.897	5.000	72.939	5.000	72.982	5.000	73.024	5.000	73.067
5.000	73.109	5.000	73.152	5.000	73.194	5.000	73.237	5.000	73.279	5.000	73.322	5.000	73.364	5.000	73.406
5.000	73.449	5.000	73.491	5.000	73.534	5.000	73.576	5.000	73.619	5.000	73.661	5.000	73.704	5.000	73.746
5.000	73.789	5.000	73.831	5.000	73.874	5.000	73.916	5.000	73.959	5.000	74.001	5.000	74.044	5.000	74.086
5.000	74.129	5.000	74.171	5.000	74.214	5.000	74.256	5.000	74.299	5.000	74.341	5.000	74.384	5.000	74.426
5.000	74.468	5.000	74.511	5.000	74.553	5.000	74.596	5.000	74.638	5.000	74.681	5.000	74.723	5.000	74.765
5.000	74.808	5.000	74.851	5.000	74.893	5.000	74.936	5.000	74.978	5.000	75.021	5.000	75.063	5.000	75.106
5.000	75.148	5.000	75.191	5.000	75.233	5.000	75.276	5.000	75.318	5.000	75.361	5.000	75.403	5.000	75.446

5.000	75.488	5.000	75.531	5.000	75.573	5.000	75.615	5.000	75.658	5.000	75.700	5.000	75.743	5.000	75.785
5.000	75.828	5.000	75.870	5.000	75.913	5.000	75.955	5.000	75.998	5.000	76.040	5.000	76.083	5.000	76.125
5.000	76.168	5.000	76.210	5.000	76.253	5.000	76.295	5.000	76.338	5.000	76.380	5.000	76.423	5.000	76.465
5.000	76.508	5.000	76.550	5.000	76.593	5.000	76.635	5.000	76.678	5.000	76.720	6.000	76.762	6.000	76.805
6.000	76.847	6.000	76.890	6.000	76.932	6.000	76.975	6.000	77.017	6.000	77.060	6.000	77.102	6.000	77.145
6.000	77.187	6.000	77.230	6.000	77.272	6.000	77.315	6.000	77.357	6.000	77.400	6.000	77.442	6.000	77.485
6.000	77.527	6.000	77.570	6.000	77.612	6.000	77.655	6.000	77.697	6.000	77.740	6.000	77.782	6.000	77.824
6.000	77.867	6.000	77.909	6.000	77.952	6.000	77.994	6.000	78.037	6.000	78.079	6.000	78.122	6.000	78.164
6.000	78.207	6.000	78.249	6.000	78.292	6.000	78.334	6.000	78.377	6.000	78.419	6.000	78.462	6.000	78.504
6.000	78.547	6.000	78.589	6.000	78.632	6.000	78.674	6.000	78.717	6.000	78.759	6.000	78.802	6.000	78.844
6.000	78.887	6.000	78.929	6.000	78.971	6.000	79.014	6.000	79.056	6.000	79.099	6.000	79.141	6.000	79.184
6.000	79.226	6.000	79.269	6.000	79.311	6.000	79.354	6.000	79.396	6.000	79.439	6.000	79.481	6.000	79.524
6.000	79.566	6.000	79.609	6.000	79.651	6.000	79.694	6.000	79.736	6.000	79.779	6.000	79.821	6.000	79.864
6.000	79.906	6.000	79.949	6.000	79.991	7.000	80.033	7.000	80.076	7.000	80.118	7.000	80.161	7.000	80.203
7.000	80.246	7.000	80.288	7.000	80.331	7.000	80.373	7.000	80.416	7.000	80.458	7.000	80.501	7.000	80.543
7.000	80.586	7.000	80.628	7.000	80.671	7.000	80.713	7.000	80.756	7.000	80.798	7.000	80.841	7.000	80.883
7.000	80.926	7.000	80.968	7.000	81.011	7.000	81.053	7.000	81.096	7.000	81.138	7.000	81.180	7.000	81.225
7.000	81.265	7.000	81.308	7.000	81.350	7.000	81.393	7.000	81.435	7.000	81.478	7.000	81.520	7.000	81.563
7.000	81.605	7.000	81.648	7.000	81.690	7.000	81.733	7.000	81.775	7.000	81.818	7.000	81.860	7.000	81.903
7.000	81.945	7.000	81.988	7.000	82.030	7.000	82.073	7.000	82.115	7.000	82.158	7.000	82.200	7.000	82.242
7.000	82.285	7.000	82.327	7.000	82.370	7.000	82.412	7.000	82.455	7.000	82.497	7.000	82.540	7.000	82.582
7.000	82.625	7.000	82.667	7.000	82.710	7.000	82.752	7.000	82.795	7.000	82.837	7.000	82.880	7.000	82.922
7.000	82.965	7.000	83.007	7.000	83.050	7.000	83.092	7.000	83.135	8.000	83.177	8.000	83.220	8.000	83.262
8.000	83.305	8.000	83.347	8.000	83.389	8.000	83.432	8.000	83.474	8.000	83.517	8.000	83.559	8.000	83.602
8.000	83.644	8.000	83.687	8.000	83.729	8.000	83.772	8.000	83.814	8.000	83.857	8.000	83.899	8.000	83.942
8.000	83.984	8.000	84.027	8.000	84.069	8.000	84.112	8.000	84.154	8.000	84.197	8.000	84.239	8.000	84.282
8.000	84.324	8.000	84.367	8.000	84.409	8.000	84.452	8.000	84.494	8.000	84.536	8.000	84.579	8.000	84.621
8.000	84.664	8.000	84.706	8.000	84.749	8.000	84.791	8.000	84.834	8.000	84.876	9.000	84.919	9.000	84.961
8.000	85.004	8.000	85.046	8.000	85.089	8.000	85.131	8.000	85.174	9.000	85.216	9.000	85.259	9.000	85.301
9.000	85.344	9.000	85.386	9.000	85.429	9.000	85.471	9.000	85.514	9.000	85.556	9.000	85.598	9.000	85.641
9.000	85.683	9.000	85.726	9.000	85.768	9.000	85.811	9.000	85.853	9.000	85.896	9.000	85.938	9.000	85.981
9.000	86.023	9.000	86.066	9.000	86.108	9.000	86.151	9.000	86.193	9.000	86.236	9.000	86.278	9.000	86.321
9.000	86.363	9.000	86.406	9.000	86.448	9.000	86.491	9.000	86.533	9.000	86.576	9.000	86.618	9.000	86.661
9.000	86.703	9.000	86.745	9.000	86.788	9.000	86.830	9.000	86.873	9.000	86.915	9.000	86.958	9.000	87.000
9.000	87.043	9.000	87.085	9.000	87.128	9.000	87.170	9.000	87.213	9.000	87.255	10.000	87.298	10.000	87.340
10.000	87.383	10.000	87.425	10.000	87.468	10.000	87.510	10.000	87.553	10.000	87.595	10.000	87.638	10.000	87.680
10.000	87.723	10.000	87.765	10.000	87.807	10.000	87.850	10.000	87.892	10.000	87.935	10.000	87.977	10.000	88.020
10.000	88.062	10.000	88.105	10.000	88.147	10.000	88.190	10.000	88.232	10.000	88.275	10.000	88.317	10.000	88.360
10.000	88.402	10.000	88.445	10.000	88.487	10.000	88.530	10.000	88.572	10.000	88.615	10.000	88.657	10.000	88.700
10.000	88.742	10.000	88.785	10.000	88.827	10.000	88.870	10.000	88.912	10.000	88.954	10.000	88.997	10.000	89.039
10.000	89.082	10.000	89.124	10.000	89.167	11.000	89.209	11.000	89.252	11.000	89.294	11.000	89.337	11.000	89.379
11.000	89.422	11.000	89.464	11.000	89.507	11.000	89.549	11.000	89.592	11.000	89.634	11.000	89.677	11.000	89.719
11.000	89.762	11.000	89.804	11.000	89.847	11.000	89.889	11.000	89.932	11.000	89.974	11.000	90.016	11.000	90.059
11.000	90.101	11.000	90.144	11.000	90.186	11.000	90.229	11.000	90.271	11.000	90.314	11.000	90.356	11.000	90.399
12.000	90.441	12.000	90.484	12.000	90.526	12.000	90.569	12.000	90.611	12.000	90.654	12.000	90.696	12.000	90.739
12.000	90.781	12.000	90.824	12.000	90.866	12.000	90.909	12.000	90.951	12.000	90.994	12.000	91.036	12.000	91.079
12.000	91.121	12.000	91.163	12.000	91.206	12.000	91.248	12.000	91.291	12.000	91.333	12.000	91.376	12.000	91.418
13.000	91.461	13.000	91.503	13.000	91.546	13.000	91.588	13.000	91.631	13.000	91.673	13.000	91.716	13.000	91.758
13.000	91.801	13.000	91.843	13.000	91.886	13.000	91.928	13.000	91.971	13.000	92.013	13.000	92.056	13.000	92.098
13.000	92.141	13.000	92.183	13.000	92.226	13.000	92.268	13.000	92.310	13.000	92.353	13.000	92.395	13.000	92.438
13.000	92.480	13.000	92.523	13.000	92.565	14.000	92.608	14.000	92.650	14.000	92.693	14.000	92.735	14.000	92.778
14.000	92.820	14.000	92.863	14.000	92.905	14.000	92.948	14.000	92.990	14.000	93.033	14.000	93.075	14.000	93.118
14.000	93.160	14.000	93.203	14.000	93.245	14.000	93.288	14.000	93.330	14.000	93.372	14.000	93.415	14.000	93.457
14.000	93.500	15.000	93.542	15.000	93.585	15.000	93.627	15.000	93.670	15.000	93.712	15.000	93.755	15.000	93.797
15.000	93.840	15.000	93.882	15.000	93.925	15.000	93.967	15.000	94.010	15.000	94.052	15.000	94.095	15.000	94.137
15.000	94.180	15.000	94.222	15.000	94.265	15.000	94.307	16.000	94.350	16.000	94.392	16.000	94.435	16.000	94.477
16.000	94.519	16.000	94.562	16.000	94.604	16.000	94.647	16.000	94.689	16.000	94.732	16.000	94.774	16.000	94.817

16.000	94.859	17.000	94.902	17.000	94.944	17.000	94.987	17.000	95.029	17.000	95.072	17.000	95.114	17.000	95.157
17.000	95.199	17.000	95.242	17.000	95.284	17.000	95.327	17.000	95.369	17.000	95.412	18.000	95.454	18.000	95.497
18.000	95.539	18.000	95.582	18.000	95.624	18.000	95.666	18.000	95.709	18.000	95.751	18.000	95.794	18.000	95.836
18.000	95.879	18.000	95.921	18.000	95.964	19.000	96.006	19.000	96.049	19.000	96.091	19.000	96.134	19.000	96.176
19.000	96.219	19.000	96.261	19.000	96.304	19.000	96.346	19.000	96.389	19.000	96.431	19.000	96.474	19.000	96.516
20.000	96.559	20.000	96.601	20.000	96.644	20.000	96.686	20.000	96.728	20.000	96.771	20.000	96.813	20.000	96.856
21.000	96.898	21.000	96.941	21.000	96.983	21.000	97.026	21.000	97.068	21.000	97.111	21.000	97.153	21.000	97.196
22.000	97.238	22.000	97.281	22.000	97.323	22.000	97.366	22.000	97.408	22.000	97.451	22.000	97.493	22.000	97.536
22.000	97.578	22.000	97.621	23.000	97.663	23.000	97.706	23.000	97.748	23.000	97.791	23.000	97.833	23.000	97.875
24.000	97.918	24.000	97.960	24.000	98.003	24.000	98.045	24.000	98.088	25.000	98.130	25.000	98.173	25.000	98.215
25.000	98.258	25.000	98.300	25.000	98.343	25.000	98.385	25.000	98.428	25.000	98.470	26.000	98.513	26.000	98.555
26.000	98.598	27.000	98.640	27.000	98.683	27.000	98.725	27.000	98.768	27.000	98.810	27.000	98.853	28.000	98.895
28.000	98.937	29.000	98.980	29.000	99.022	29.000	99.065	29.000	99.107	29.000	99.150	30.000	99.192	30.000	99.235
31.000	99.277	32.000	99.320	33.000	99.362	33.000	99.405	33.000	99.447	33.000	99.490	35.000	99.532	36.000	99.575
36.000	99.617	37.000	99.660	37.000	99.702	37.000	99.745	39.000	99.787	40.000	99.830	42.000	99.872	46.000	99.915
49.000	99.957	58.000	100.000												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60.00
70.00
80.00
90.00
100.00
DURATION VS PERCENT LESS THAN OR EQUAL TO

RETURN PERIOD (IN YEARS) FOR DURATION

VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD
58.000	26.000	49.000	13.000	46.000	8.666	42.000	6.500	40.000	5.200	39.000	4.333	37.000	3.714	37.000	3.250
37.000	2.889	36.000	2.600	36.000	2.363	35.000	2.166	33.000	2.000	33.000	1.857	33.000	1.733	33.000	1.625
32.000	1.529	31.000	1.444	30.000	1.368	30.000	1.300	29.000	1.238	29.000	1.181	29.000	1.130	29.000	1.083
29.000	1.040	28.000	1.000	28.000	0.962	27.000	0.928	27.000	0.896	27.000	0.866	27.000	0.838	27.000	0.812
27.000	0.787	26.000	0.764	26.000	0.742	26.000	0.722	25.000	0.702	25.000	0.684	25.000	0.666	25.000	0.650
25.000	0.634	25.000	0.619	25.000	0.604	25.000	0.590	25.000	0.577	24.000	0.565	24.000	0.553	24.000	0.541
24.000	0.530	24.000	0.520	23.000	0.509	23.000	0.500	23.000	0.490	23.000	0.481	23.000	0.472	23.000	0.464
22.000	0.456	22.000	0.448	22.000	0.440	22.000	0.433	22.000	0.426	22.000	0.419	22.000	0.412	22.000	0.405
22.000	0.400	22.000	0.393	21.000	0.388	21.000	0.382	21.000	0.376	21.000	0.371	21.000	0.366	21.000	0.361
21.000	0.356	21.000	0.351	20.000	0.346	20.000	0.342	20.000	0.337	20.000	0.333	20.000	0.329	20.000	0.325
20.000	0.320	20.000	0.317	19.000	0.313	19.000	0.309	19.000	0.305	19.000	0.302	19.000	0.298	19.000	0.295
19.000	0.292	19.000	0.288	19.000	0.285	19.000	0.282	19.000	0.279	19.000	0.276	19.000	0.273	18.000	0.270
18.000	0.268	18.000	0.265	18.000	0.262	18.000	0.260	18.000	0.257	18.000	0.254	18.000	0.252	18.000	0.250
18.000	0.247	18.000	0.245	18.000	0.242	18.000	0.240	17.000	0.238	17.000	0.236	17.000	0.234	17.000	0.232
17.000	0.230	17.000	0.228	17.000	0.226	17.000	0.224	17.000	0.222	17.000	0.220	17.000	0.218	17.000	0.216
17.000	0.214	16.000	0.213	16.000	0.211	16.000	0.209	16.000	0.208	16.000	0.206	16.000	0.204	16.000	0.203
16.000	0.201	16.000	0.200	16.000	0.198	16.000	0.196	16.000	0.195	16.000	0.194	15.000	0.192	15.000	0.191
15.000	0.189	15.000	0.188	15.000	0.187	15.000	0.185	15.000	0.184	15.000	0.183	15.000	0.181	15.000	0.180
15.000	0.179	15.000	0.178	15.000	0.176	15.000	0.175	15.000	0.174	15.000	0.173	15.000	0.172	15.000	0.171
15.000	0.169	14.000	0.168	14.000	0.167	14.000	0.166	14.000	0.165	14.000	0.164	14.000	0.163	14.000	0.162
14.000	0.161	14.000	0.160	14.000	0.159	14.000	0.158	14.000	0.157	14.000	0.156	14.000	0.155	14.000	0.154
14.000	0.153	14.000	0.152	14.000	0.152	14.000	0.151	14.000	0.150	14.000	0.149	14.000	0.148	13.000	0.147
13.000	0.146	13.000	0.146	13.000	0.145	13.000	0.144	13.000	0.143	13.000	0.142	13.000	0.142	13.000	0.141
13.000	0.140	13.000	0.139	13.000	0.139	13.000	0.138	13.000	0.137	13.000	0.136	13.000	0.136	13.000	0.135
13.000	0.134	13.000	0.134	13.000	0.133	13.000	0.132	13.000	0.131	13.000	0.131	13.000	0.130	13.000	0.130
13.000	0.129	13.000	0.128	12.000	0.128	12.000	0.127	12.000	0.126	12.000	0.126	12.000	0.125	12.000	0.125
12.000	0.124	12.000	0.123	12.000	0.123	12.000	0.122	12.000	0.122	12.000	0.121	12.000	0.120	12.000	0.120
12.000	0.119	12.000	0.119	12.000	0.118	12.000	0.118	12.000	0.117	12.000	0.117	12.000	0.116	12.000	0.116
12.000	0.115	12.000	0.115	11.000	0.114	11.000	0.114	11.000	0.113	11.000	0.113	11.000	0.112	11.000	0.112
11.000	0.111	11.000	0.111	11.000	0.110	11.000	0.110	11.000	0.109	11.000	0.109	11.000	0.108	11.000	0.108
11.000	0.107	11.000	0.107	11.000	0.106	11.000	0.106	11.000	0.106	11.000	0.105	11.000	0.105	11.000	0.104
11.000	0.104	11.000	0.104	11.000	0.103	11.000	0.103	11.000	0.102	11.000	0.102	11.000	0.101	10.000	0.101
10.000	0.101	10.000	0.100	10.000	0.100	10.000	0.100	10.000	0.099	10.000	0.099	10.000	0.098	10.000	0.098
10.000	0.098	10.000	0.097	10.000	0.097	10.000	0.097	10.000	0.096	10.000	0.096	10.000	0.095	10.000	0.095
10.000	0.095	10.000	0.094	10.000	0.094	10.000	0.094	10.000	0.093	10.000	0.093	10.000	0.093	10.000	0.092
10.000	0.092	10.000	0.092	10.000	0.091	10.000	0.091	10.000	0.091	10.000	0.090	10.000	0.090	10.000	0.090
10.000	0.089	10.000	0.089	10.000	0.089	10.000	0.089	10.000	0.088	10.000	0.088	10.000	0.088	10.000	0.087
10.000	0.087	10.000	0.087	10.000	0.086	10.000	0.086	9.000	0.086	9.000	0.086	9.000	0.085	9.000	0.085
9.000	0.085	9.000	0.084	9.000	0.084	9.000	0.084	9.000	0.084	9.000	0.083	9.000	0.083	9.000	0.083
9.000	0.083	9.000	0.082	9.000	0.082	9.000	0.082	9.000	0.082	9.000	0.081	9.000	0.081	9.000	0.081
9.000	0.080	9.000	0.080	9.000	0.080	9.000	0.080	9.000	0.080	9.000	0.079	9.000	0.079	9.000	0.079
9.000	0.079	9.000	0.078	9.000	0.078	9.000	0.078	9.000	0.078	9.000	0.077	9.000	0.077	9.000	0.077
9.000	0.077	9.000	0.076	9.000	0.076	9.000	0.076	9.000	0.076	9.000	0.076	9.000	0.075	9.000	0.075
9.000	0.075	9.000	0.075	9.000	0.074	9.000	0.074	9.000	0.074	8.000	0.074	8.000	0.074	8.000	0.073
8.000	0.073	8.000	0.073	8.000	0.073	8.000	0.073	8.000	0.072	8.000	0.072	8.000	0.072	8.000	0.072
8.000	0.072	8.000	0.071	8.000	0.071	8.000	0.071	8.000	0.071	8.000	0.071	8.000	0.070	8.000	0.070
8.000	0.070	8.000	0.070	8.000	0.070	8.000	0.069	8.000	0.069	8.000	0.069	8.000	0.069	8.000	0.069
8.000	0.068	8.000	0.068	8.000	0.068	8.000	0.068	8.000	0.068	8.000	0.068	8.000	0.067	8.000	0.067
8.000	0.067	8.000	0.067	8.000	0.067	8.000	0.067	8.000	0.066	8.000	0.066	8.000	0.066	8.000	0.066
8.000	0.066	8.000	0.065	8.000	0.065	8.000	0.065	8.000	0.065	7.000	0.065	7.000	0.065	7.000	0.065
7.000	0.064	7.000	0.064	7.000	0.064	7.000	0.064	7.000	0.064	7.000	0.064	7.000	0.063	7.000	0.063
7.000	0.063	7.000	0.063	7.000	0.063	7.000	0.063	7.000	0.062	7.000	0.062	7.000	0.062	7.000	0.062
7.000	0.062	7.000	0.062	7.000	0.062	7.000	0.061	7.000	0.061	7.000	0.061	7.000	0.061	7.000	0.061

7.000	0.061	7.000	0.061	7.000	0.060	7.000	0.060	7.000	0.060	7.000	0.060	7.000	0.060	7.000	0.060
7.000	0.060	7.000	0.059	7.000	0.059	7.000	0.059	7.000	0.059	7.000	0.059	7.000	0.059	7.000	0.059
7.000	0.058	7.000	0.058	7.000	0.058	7.000	0.058	7.000	0.058	7.000	0.058	7.000	0.058	7.000	0.058
7.000	0.057	7.000	0.057	7.000	0.057	7.000	0.057	7.000	0.057	7.000	0.057	7.000	0.057	7.000	0.057
7.000	0.056	7.000	0.056	7.000	0.056	7.000	0.056	7.000	0.056	7.000	0.056	7.000	0.056	7.000	0.056
7.000	0.055	7.000	0.055	7.000	0.055	7.000	0.055	7.000	0.055	7.000	0.055	7.000	0.055	6.000	0.055
6.000	0.054	6.000	0.054	6.000	0.054	6.000	0.054	6.000	0.054	6.000	0.054	6.000	0.054	6.000	0.054
6.000	0.054	6.000	0.053	6.000	0.053	6.000	0.053	6.000	0.053	6.000	0.053	6.000	0.053	6.000	0.053
6.000	0.053	6.000	0.053	6.000	0.052	6.000	0.052	6.000	0.052	6.000	0.052	6.000	0.052	6.000	0.052
6.000	0.052	6.000	0.052	6.000	0.052	6.000	0.052	6.000	0.051	6.000	0.051	6.000	0.051	6.000	0.051
6.000	0.051	6.000	0.051	6.000	0.051	6.000	0.051	6.000	0.051	6.000	0.050	6.000	0.050	6.000	0.050
6.000	0.050	6.000	0.050	6.000	0.050	6.000	0.050	6.000	0.050	6.000	0.050	6.000	0.050	6.000	0.050
6.000	0.049	6.000	0.049	6.000	0.049	6.000	0.049	6.000	0.049	6.000	0.049	6.000	0.049	6.000	0.049
6.000	0.049	6.000	0.049	6.000	0.048	6.000	0.048	6.000	0.048	6.000	0.048	6.000	0.048	6.000	0.049
6.000	0.048	6.000	0.048	6.000	0.048	6.000	0.048	6.000	0.048	6.000	0.047	6.000	0.047	6.000	0.047
6.000	0.047	6.000	0.047	6.000	0.047	6.000	0.047	5.000	0.047	5.000	0.047	5.000	0.047	5.000	0.047
5.000	0.047	5.000	0.046	5.000	0.046	5.000	0.046	5.000	0.046	5.000	0.046	5.000	0.046	5.000	0.046
5.000	0.046	5.000	0.046	5.000	0.046	5.000	0.046	5.000	0.046	5.000	0.045	5.000	0.045	5.000	0.045
5.000	0.045	5.000	0.045	5.000	0.045	5.000	0.045	5.000	0.045	5.000	0.045	5.000	0.045	5.000	0.045
5.000	0.045	5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.044
5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.044	5.000	0.043	5.000	0.043
5.000	0.043	5.000	0.043	5.000	0.043	5.000	0.043	5.000	0.043	5.000	0.043	5.000	0.043	5.000	0.043
5.000	0.043	5.000	0.043	5.000	0.043	5.000	0.043	5.000	0.042	5.000	0.042	5.000	0.042	5.000	0.042
5.000	0.042	5.000	0.042	5.000	0.042	5.000	0.042	5.000	0.042	5.000	0.042	5.000	0.042	5.000	0.042
5.000	0.042	5.000	0.042	5.000	0.042	5.000	0.041	5.000	0.041	5.000	0.041	5.000	0.041	5.000	0.041
5.000	0.041	5.000	0.041	5.000	0.041	5.000	0.041	5.000	0.041	5.000	0.041	5.000	0.041	5.000	0.041
5.000	0.041	5.000	0.041	5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040
5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040	5.000	0.040
5.000	0.040	5.000	0.040	5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039
5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039	5.000	0.039
5.000	0.039	5.000	0.039	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038
4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038
4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.038	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037
4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037
4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.037	4.000	0.036	4.000	0.036
4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036
4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036	4.000	0.036
4.000	0.036	4.000	0.036	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035
4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035
4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035	4.000	0.035
4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034
4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034
4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.034	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033
4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033
4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033	4.000	0.033
4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032
4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032
4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.032	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031
4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031
4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031	4.000	0.031
4.000	0.031	3.000	0.031	3.000	0.031	3.000	0.031	3.000	0.031	3.000	0.031	3.000	0.030	3.000	0.030
3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030
3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030
3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030	3.000	0.030
3.000	0.030	3.000	0.030	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029
3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029

3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029
3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029	3.000	0.029
3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028
3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028
3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028
3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028	3.000	0.028
3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027
3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027
3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027
3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027	3.000	0.027
3.000	0.027	3.000	0.027	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026
3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026
3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026
3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026
3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026	3.000	0.026
3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025
3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025
3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025
3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025
3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025	3.000	0.025
3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024
3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024
3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024	3.000	0.024
3.000	0.024	3.000	0.024	3.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024
2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.024
2.000	0.024	2.000	0.024	2.000	0.024	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023
2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023
2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023
2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023
2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023
2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023	2.000	0.023
2.000	0.023	2.000	0.023	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022
2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022
2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022
2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022
2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022
2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022
2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.022	2.000	0.021	2.000	0.021	2.000	0.021
2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021
2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021
2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021
2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021
2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021
2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021
2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.021	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020
2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.020	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019

2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019	2.000	0.019
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018
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2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.018	2.000	0.017	2.000	0.017	2.000	0.017	2.000	0.017
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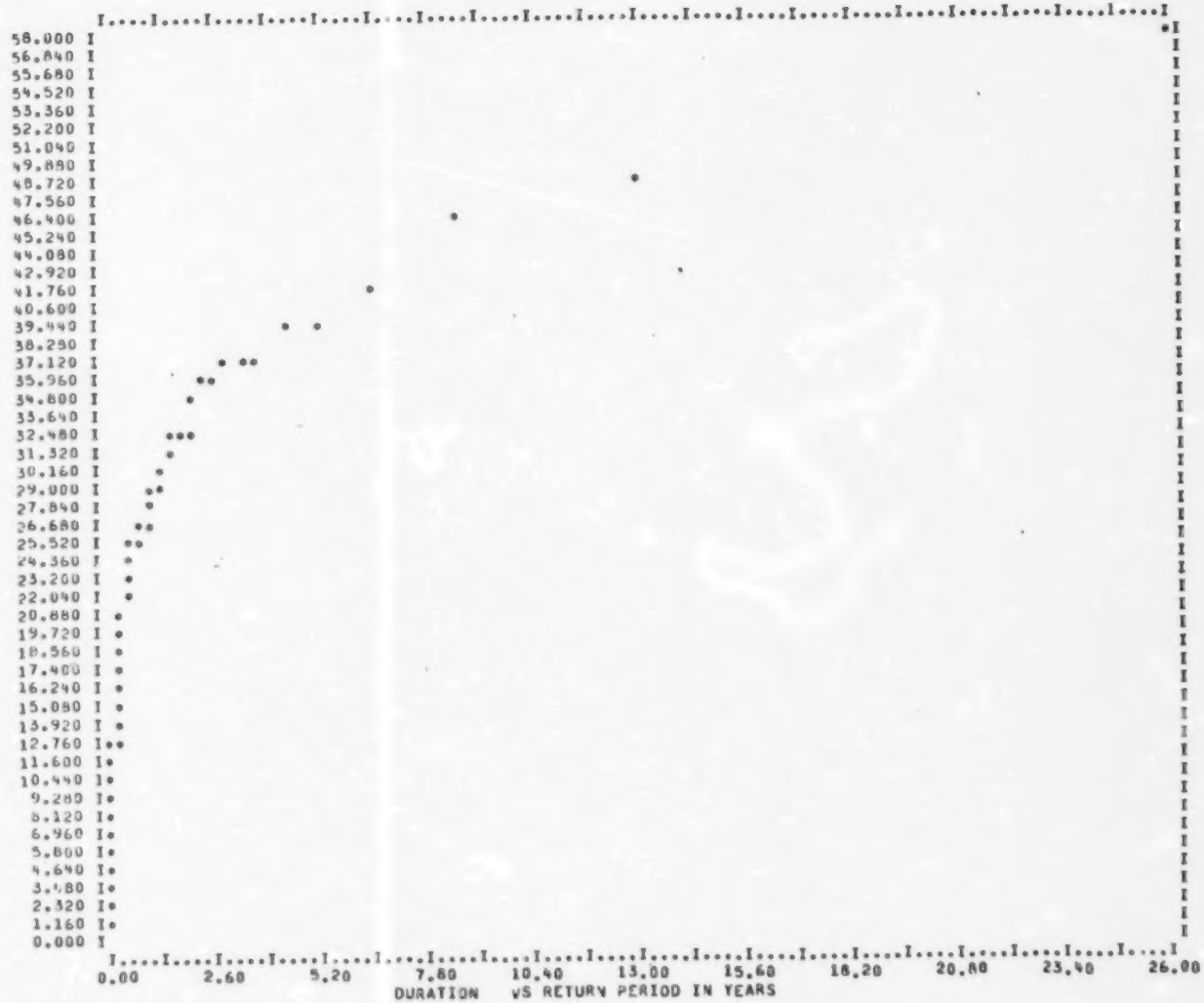
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52.200
51.040
49.880
48.720
47.560
46.400
45.240
44.080
42.920
41.760
40.600
39.440
38.280
37.120
35.960
34.800
33.640
32.480
31.320
30.160
29.000
27.840
26.680
25.520
24.360
23.200
22.040
20.880
19.720
18.560
17.400
16.240
15.080
13.920
12.760
11.600
10.440
9.280
8.120
6.960
5.800
4.640
3.480
2.320
1.160
0.000
0.00
2.60
5.20
7.80
10.40
13.00
15.60
18.20
20.80
23.40
26.00
DURATION VS RETURN PERIOD IN YEARS

PROBABILITY ANALYSIS-INTENSITY

PERCENTAGE OF OCCURRENCE LESS THAN OR EQUAL TO THE GIVEN VALUE OF INTENSITY

VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT
0.004	0.042	0.004	0.084	0.005	0.127	0.005	0.169	0.005	0.212	0.005	0.254	0.005	0.297	0.005	0.339
0.005	0.382	0.005	0.424	0.005	0.467	0.005	0.509	0.005	0.552	0.005	0.594	0.005	0.637	0.005	0.679
0.005	0.722	0.005	0.764	0.005	0.807	0.005	0.849	0.005	0.892	0.005	0.934	0.005	0.977	0.005	1.019
0.005	1.062	0.005	1.104	0.006	1.146	0.006	1.189	0.006	1.231	0.006	1.274	0.006	1.316	0.006	1.359
0.006	1.401	0.006	1.444	0.006	1.486	0.006	1.529	0.006	1.571	0.006	1.614	0.006	1.656	0.006	1.699
0.006	1.741	0.006	1.784	0.006	1.826	0.006	1.869	0.006	1.911	0.006	1.954	0.006	1.996	0.006	2.039
0.006	2.081	0.006	2.124	0.006	2.166	0.006	2.209	0.006	2.251	0.006	2.293	0.006	2.336	0.006	2.378
0.006	2.421	0.006	2.463	0.006	2.506	0.006	2.548	0.006	2.591	0.006	2.633	0.006	2.676	0.006	2.718
0.006	2.761	0.006	2.803	0.006	2.846	0.006	2.888	0.006	2.931	0.006	2.973	0.006	3.016	0.006	3.059
0.006	3.101	0.006	3.143	0.007	3.186	0.007	3.228	0.007	3.271	0.007	3.313	0.007	3.355	0.007	3.398
0.007	3.440	0.007	3.483	0.007	3.525	0.007	3.568	0.007	3.610	0.007	3.653	0.007	3.695	0.007	3.738
0.007	3.780	0.007	3.823	0.007	3.865	0.007	3.908	0.007	3.950	0.007	3.993	0.007	4.035	0.007	4.078
0.007	4.120	0.007	4.163	0.007	4.205	0.007	4.248	0.007	4.290	0.007	4.333	0.007	4.375	0.007	4.418
0.007	4.460	0.007	4.502	0.007	4.545	0.007	4.587	0.007	4.630	0.007	4.672	0.007	4.715	0.007	4.757
0.007	4.800	0.008	4.842	0.008	4.885	0.008	4.927	0.008	4.970	0.008	5.012	0.008	5.055	0.008	5.097
0.008	5.140	0.008	5.182	0.008	5.225	0.008	5.267	0.008	5.310	0.008	5.352	0.008	5.395	0.008	5.437
0.008	5.480	0.008	5.522	0.008	5.564	0.008	5.607	0.008	5.649	0.008	5.692	0.008	5.734	0.008	5.777
0.008	5.819	0.008	5.862	0.008	5.904	0.008	5.947	0.008	5.989	0.008	6.032	0.008	6.074	0.009	6.117
0.009	6.159	0.009	6.202	0.009	6.244	0.010	6.287	0.010	6.329	0.010	6.372	0.010	6.414	0.010	6.457
0.010	6.499	0.010	6.542	0.010	6.584	0.010	6.627	0.010	6.669	0.010	6.711	0.010	6.754	0.010	6.796
0.010	6.839	0.010	6.881	0.010	6.924	0.010	6.966	0.010	7.009	0.010	7.051	0.010	7.094	0.010	7.136
0.010	7.179	0.010	7.221	0.010	7.264	0.010	7.306	0.010	7.349	0.010	7.391	0.010	7.434	0.010	7.476
0.010	7.519	0.010	7.561	0.010	7.604	0.010	7.646	0.010	7.689	0.010	7.731	0.010	7.774	0.010	7.816
0.010	7.858	0.010	7.901	0.010	7.943	0.010	7.986	0.010	8.028	0.010	8.071	0.010	8.113	0.010	8.156
0.010	8.198	0.010	8.241	0.010	8.283	0.010	8.326	0.010	8.368	0.010	8.411	0.010	8.453	0.010	8.496
0.010	8.538	0.010	8.581	0.010	8.623	0.010	8.666	0.010	8.708	0.010	8.751	0.010	8.793	0.010	8.835
0.010	8.878	0.010	8.920	0.010	8.963	0.010	9.005	0.010	9.048	0.010	9.090	0.010	9.133	0.010	9.175
0.010	9.218	0.010	9.260	0.010	9.303	0.010	9.345	0.010	9.388	0.010	9.430	0.010	9.473	0.010	9.515
0.010	9.558	0.010	9.600	0.010	9.643	0.010	9.685	0.010	9.728	0.010	9.770	0.010	9.813	0.010	9.855
0.010	9.898	0.010	9.940	0.010	9.983	0.010	10.025	0.010	10.067	0.010	10.110	0.010	10.152	0.010	10.195
0.010	10.237	0.010	10.280	0.010	10.322	0.010	10.365	0.010	10.407	0.010	10.450	0.010	10.492	0.010	10.535
0.010	10.577	0.010	10.620	0.010	10.662	0.010	10.705	0.010	10.747	0.010	10.790	0.010	10.832	0.010	10.875
0.010	10.917	0.010	10.960	0.010	11.002	0.010	11.045	0.010	11.087	0.010	11.129	0.010	11.172	0.010	11.214
0.010	11.257	0.010	11.299	0.010	11.342	0.010	11.384	0.010	11.427	0.010	11.469	0.010	11.512	0.010	11.554
0.010	11.597	0.010	11.639	0.010	11.682	0.010	11.724	0.010	11.767	0.010	11.809	0.010	11.852	0.010	11.894
0.010	11.937	0.010	11.979	0.010	12.022	0.010	12.064	0.010	12.107	0.010	12.149	0.010	12.192	0.010	12.234
0.010	12.276	0.010	12.319	0.010	12.361	0.010	12.404	0.010	12.446	0.010	12.489	0.010	12.531	0.010	12.574
0.010	12.616	0.010	12.659	0.010	12.701	0.010	12.744	0.010	12.786	0.010	12.829	0.010	12.871	0.010	12.914
0.010	12.956	0.010	12.999	0.010	13.041	0.010	13.084	0.010	13.126	0.010	13.169	0.010	13.211	0.010	13.254
0.010	13.296	0.010	13.338	0.010	13.381	0.010	13.423	0.010	13.466	0.010	13.508	0.010	13.551	0.010	13.595
0.010	13.636	0.010	13.678	0.010	13.721	0.010	13.763	0.010	13.806	0.010	13.848	0.010	13.891	0.010	13.933
0.010	13.976	0.010	14.018	0.010	14.061	0.010	14.103	0.010	14.146	0.010	14.188	0.010	14.231	0.010	14.273
0.010	14.316	0.010	14.358	0.010	14.401	0.010	14.443	0.010	14.485	0.010	14.528	0.010	14.570	0.010	14.613
0.010	14.655	0.010	14.698	0.010	14.740	0.010	14.783	0.010	14.825	0.010	14.868	0.010	14.910	0.010	14.953
0.010	14.995	0.010	15.038	0.010	15.080	0.010	15.123	0.010	15.165	0.010	15.208	0.010	15.250	0.010	15.293
0.010	15.335	0.010	15.378	0.010	15.420	0.010	15.463	0.010	15.505	0.010	15.548	0.010	15.590	0.010	15.632
0.010	15.675	0.010	15.717	0.010	15.760	0.010	15.802	0.010	15.845	0.010	15.887	0.010	15.930	0.010	15.972
0.010	16.015	0.010	16.057	0.010	16.100	0.010	16.142	0.010	16.185	0.010	16.227	0.010	16.270	0.010	16.312
0.010	16.355	0.010	16.397	0.010	16.440	0.010	16.482	0.010	16.525	0.010	16.567	0.010	16.610	0.010	16.652
0.010	16.694	0.010	16.737	0.010	16.779	0.010	16.822	0.010	16.864	0.010	16.907	0.010	16.949	0.010	16.992
0.010	17.034	0.010	17.077	0.010	17.119	0.010	17.162	0.010	17.204	0.010	17.247	0.010	17.289	0.010	17.332

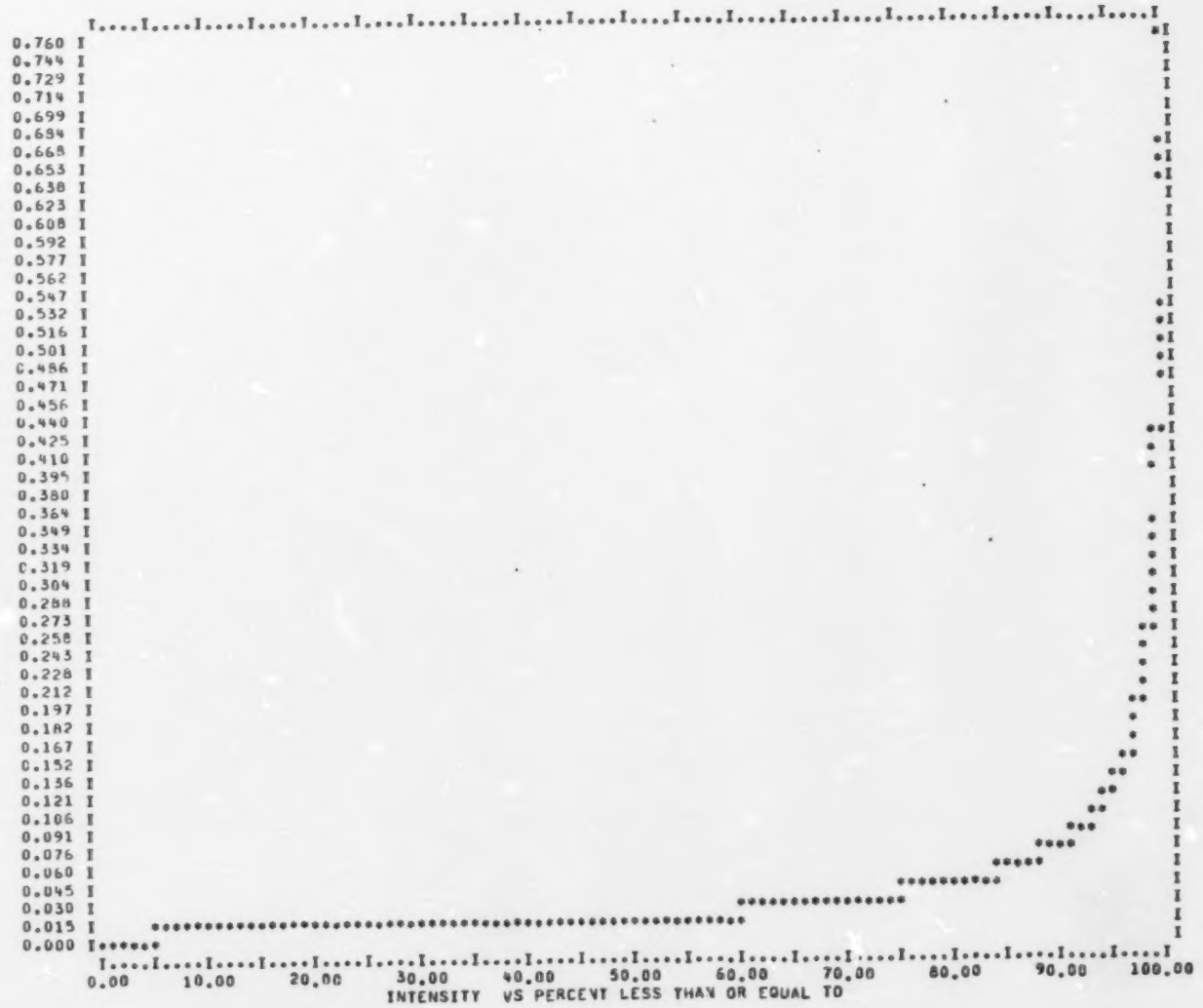
0.010	17.374	0.010	17.417	0.010	17.459	0.010	17.502	0.010	17.544	0.010	17.587	0.010	17.629	0.010	17.672
0.010	17.714	0.010	17.757	0.010	17.799	0.010	17.841	0.010	17.884	0.010	17.926	0.010	17.969	0.010	18.011
0.010	18.054	0.010	18.096	0.010	18.139	0.010	18.181	0.010	18.224	0.010	18.266	0.010	18.309	0.010	18.351
0.010	18.394	0.010	18.436	0.010	18.479	0.010	18.521	0.010	18.564	0.010	18.606	0.010	18.649	0.010	18.691
0.010	18.734	0.010	18.776	0.010	18.819	0.010	18.861	0.010	18.903	0.010	18.946	0.010	18.988	0.010	19.031
0.010	19.073	0.010	19.116	0.010	19.158	0.010	19.201	0.010	19.243	0.010	19.286	0.010	19.328	0.010	19.371
0.010	19.413	0.010	19.456	0.010	19.498	0.010	19.541	0.010	19.583	0.010	19.626	0.010	19.668	0.010	19.711
0.010	19.753	0.010	19.796	0.010	19.838	0.010	19.881	0.010	19.923	0.010	19.966	0.010	20.008	0.010	20.050
0.010	20.093	0.010	20.135	0.010	20.178	0.010	20.220	0.010	20.262	0.010	20.305	0.010	20.348	0.010	20.390
0.010	20.433	0.010	20.475	0.010	20.518	0.010	20.560	0.010	20.603	0.010	20.645	0.010	20.688	0.010	20.730
0.010	20.773	0.010	20.815	0.010	20.858	0.010	20.900	0.010	20.943	0.010	20.985	0.010	21.028	0.010	21.070
0.010	21.113	0.010	21.155	0.010	21.197	0.010	21.240	0.010	21.282	0.010	21.325	0.010	21.367	0.010	21.410
0.010	21.452	0.010	21.495	0.010	21.537	0.010	21.580	0.010	21.622	0.010	21.665	0.010	21.707	0.010	21.750
0.010	21.792	0.010	21.835	0.010	21.877	0.010	21.920	0.010	21.962	0.010	22.005	0.010	22.047	0.010	22.090
0.010	22.132	0.010	22.175	0.010	22.217	0.010	22.259	0.010	22.302	0.010	22.344	0.010	22.387	0.010	22.429
0.010	22.472	0.010	22.514	0.010	22.557	0.010	22.599	0.010	22.642	0.010	22.684	0.010	22.727	0.010	22.769
0.010	22.812	0.010	22.854	0.010	22.897	0.010	22.939	0.010	22.982	0.010	23.024	0.010	23.067	0.010	23.109
0.010	23.152	0.010	23.194	0.010	23.237	0.010	23.279	0.010	23.322	0.010	23.364	0.010	23.406	0.010	23.449
0.010	23.491	0.010	23.534	0.010	23.576	0.010	23.619	0.010	23.661	0.010	23.704	0.010	23.746	0.010	23.789
0.010	23.831	0.010	23.874	0.010	23.916	0.010	23.959	0.010	24.001	0.010	24.044	0.010	24.086	0.010	24.129
0.010	24.171	0.010	24.214	0.010	24.256	0.010	24.299	0.010	24.341	0.010	24.384	0.010	24.426	0.010	24.468
0.010	24.511	0.010	24.553	0.010	24.596	0.010	24.638	0.010	24.681	0.010	24.723	0.010	24.766	0.010	24.808
0.010	24.851	0.010	24.893	0.010	24.936	0.010	24.978	0.010	25.021	0.010	25.063	0.010	25.106	0.010	25.148
0.010	25.191	0.010	25.233	0.010	25.276	0.010	25.318	0.010	25.361	0.010	25.403	0.010	25.446	0.010	25.488
0.010	25.531	0.010	25.573	0.010	25.615	0.010	25.658	0.010	25.700	0.010	25.743	0.010	25.785	0.010	25.828
0.010	25.870	0.010	25.913	0.010	25.955	0.010	25.998	0.010	26.040	0.010	26.083	0.010	26.125	0.010	26.168
0.010	26.210	0.010	26.253	0.010	26.295	0.010	26.338	0.010	26.380	0.010	26.423	0.010	26.465	0.010	26.508
0.010	26.550	0.010	26.593	0.010	26.635	0.010	26.677	0.010	26.720	0.010	26.762	0.010	26.805	0.010	26.847
0.010	26.890	0.010	26.932	0.010	26.975	0.010	27.017	0.010	27.060	0.010	27.102	0.010	27.145	0.010	27.187
0.010	27.230	0.010	27.272	0.010	27.315	0.010	27.357	0.010	27.400	0.010	27.442	0.010	27.485	0.010	27.527
0.010	27.570	0.010	27.612	0.010	27.655	0.010	27.697	0.010	27.740	0.010	27.782	0.010	27.824	0.010	27.867
0.010	27.909	0.010	27.952	0.010	27.994	0.010	28.037	0.010	28.079	0.010	28.122	0.010	28.164	0.010	28.207
0.010	28.249	0.010	28.292	0.010	28.334	0.010	28.377	0.010	28.419	0.010	28.462	0.010	28.504	0.010	28.547
0.010	28.589	0.010	28.632	0.010	28.674	0.010	28.717	0.010	28.759	0.010	28.802	0.010	28.844	0.010	28.887
0.010	28.929	0.010	28.97[illegible]	0.010	29.014	0.010	29.056	0.010	29.099	0.010	29.141	0.010	29.184	0.010	29.226
0.010	29.269	0.010	29.311	0.010	29.354	0.010	29.396	0.010	29.439	0.010	29.481	0.010	29.524	0.010	29.566
0.010	29.609	0.010	29.651	0.010	29.694	0.010	29.736	0.010	29.779	0.010	29.821	0.010	29.864	0.010	29.906
0.010	29.949	0.010	29.991	0.010	30.033	0.010	30.076	0.010	30.118	0.010	30.161	0.010	30.203	0.010	30.245
0.010	30.288	0.010	30.331	0.010	30.373	0.010	30.416	0.010	30.458	0.010	30.501	0.010	30.543	0.010	30.585
0.010	30.628	0.010	30.671	0.010	30.713	0.010	30.756	0.010	30.798	0.010	30.841	0.010	30.883	0.010	30.925
0.010	30.968	0.010	31.011	0.010	31.053	0.010	31.096	0.010	31.138	0.010	31.180	0.010	31.223	0.010	31.265
0.010	31.308	0.010	31.350	0.010	31.393	0.010	31.435	0.010	31.478	0.010	31.520	0.010	31.563	0.010	31.605
0.010	31.648	0.010	31.690	0.010	31.733	0.010	31.775	0.010	31.818	0.010	31.860	0.010	31.903	0.010	31.945
0.010	31.988	0.010	32.030	0.010	32.073	0.010	32.115	0.010	32.158	0.010	32.200	0.010	32.242	0.010	32.285
0.010	32.327	0.010	32.370	0.010	32.412	0.010	32.455	0.010	32.497	0.010	32.540	0.010	32.582	0.010	32.625
0.010	32.667	0.010	32.710	0.010	32.752	0.010	32.795	0.010	32.837	0.010	32.880	0.010	32.922	0.010	32.965
0.010	33.007	0.010	33.050	0.010	33.092	0.010	33.135	0.010	33.177	0.010	33.220	0.010	33.262	0.010	33.305
0.010	33.347	0.010	33.389	0.010	33.432	0.010	33.474	0.010	33.517	0.010	33.559	0.010	33.602	0.010	33.644
0.010	33.687	0.010	33.729	0.010	33.772	0.010	33.814	0.010	33.857	0.010	33.899	0.010	33.942	0.010	33.984
0.010	34.027	0.010	34.069	0.010	34.112	0.010	34.154	0.010	34.197	0.010	34.239	0.010	34.282	0.010	34.324
0.010	34.367	0.010	34.409	0.010	34.452	0.010	34.494	0.010	34.536	0.010	34.579	0.010	34.621	0.010	34.664
0.010	34.706	0.010	34.749	0.010	34.791	0.010	34.834	0.010	34.876	0.010	34.919	0.010	34.961	0.010	35.004
0.010	35.046	0.010	35.089	0.010	35.131	0.010	35.174	0.010	35.216	0.010	35.259	0.010	35.301	0.010	35.344
0.010	35.386	0.010	35.429	0.010	35.471	0.010	35.514	0.010	35.556	0.010	35.598	0.010	35.641	0.010	35.683
0.010	35.726	0.010	35.768	0.010	35.811	0.010	35.853	0.010	35.896	0.010	35.938	0.010	35.981	0.010	36.023
0.010	36.066	0.010	36.108	0.010	36.151	0.010	36.193	0.010	36.236	0.010	36.278	0.010	36.321	0.010	36.363
0.010	36.406	0.010	36.448	0.010	36.491	0.010	36.533	0.010	36.576	0.010	36.618	0.010	36.661	0.010	36.703

0.010	36.745	0.010	36.788	0.010	36.830	0.010	36.873	0.010	36.915	0.010	36.958	0.010	37.000	0.010	37.043
0.010	37.085	0.010	37.128	0.010	37.170	0.010	37.213	0.010	37.255	0.010	37.298	0.010	37.340	0.010	37.383
0.010	37.425	0.010	37.468	0.010	37.510	0.010	37.553	0.010	37.595	0.010	37.638	0.010	37.680	0.010	37.723
0.010	37.765	0.010	37.807	0.010	37.850	0.010	37.892	0.010	37.935	0.010	37.977	0.010	38.020	0.010	38.062
0.010	38.105	0.010	38.147	0.010	38.190	0.011	38.232	0.011	38.275	0.011	38.317	0.011	38.360	0.011	38.402
0.011	38.445	0.011	38.487	0.011	38.530	0.011	38.572	0.011	38.615	0.011	38.657	0.011	38.700	0.011	38.742
0.011	38.785	0.011	38.827	0.011	38.870	0.011	38.912	0.011	38.954	0.011	38.997	0.011	39.039	0.011	39.082
0.011	39.124	0.011	39.167	0.011	39.209	0.012	39.252	0.012	39.294	0.012	39.337	0.012	39.379	0.012	39.422
0.012	39.464	0.012	39.507	0.012	39.549	0.012	39.592	0.012	39.634	0.012	39.677	0.012	39.719	0.012	39.762
0.012	39.804	0.012	39.847	0.012	39.889	0.012	39.932	0.012	39.974	0.012	40.016	0.012	40.059	0.012	40.101
0.012	40.144	0.012	40.186	0.012	40.229	0.012	40.271	0.012	40.314	0.012	40.356	0.012	40.399	0.012	40.441
0.012	40.484	0.012	40.526	0.012	40.569	0.012	40.611	0.012	40.654	0.012	40.696	0.012	40.739	0.012	40.781
0.012	40.824	0.012	40.866	0.012	40.909	0.012	40.951	0.012	40.994	0.012	41.036	0.012	41.079	0.012	41.121
0.013	41.163	0.013	41.206	0.013	41.248	0.013	41.291	0.013	41.333	0.013	41.376	0.013	41.418	0.013	41.461
0.013	41.503	0.013	41.546	0.013	41.588	0.013	41.631	0.013	41.673	0.013	41.716	0.013	41.758	0.013	41.801
0.013	41.843	0.013	41.886	0.013	41.928	0.013	41.971	0.013	42.013	0.013	42.056	0.013	42.098	0.013	42.141
0.013	42.183	0.013	42.226	0.013	42.268	0.013	42.310	0.013	42.353	0.013	42.395	0.013	42.438	0.014	42.480
0.014	42.523	0.014	42.565	0.014	42.608	0.014	42.650	0.014	42.693	0.014	42.735	0.014	42.778	0.014	42.820
0.014	42.863	0.014	42.905	0.014	42.948	0.014	42.990	0.014	43.033	0.014	43.075	0.014	43.118	0.014	43.160
0.014	43.203	0.014	43.245	0.014	43.288	0.014	43.330	0.015	43.372	0.015	43.415	0.015	43.457	0.015	43.500
0.015	43.542	0.015	43.585	0.015	43.627	0.015	43.670	0.015	43.712	0.015	43.755	0.015	43.797	0.015	43.840
0.015	43.882	0.015	43.925	0.015	43.967	0.015	44.010	0.015	44.052	0.015	44.095	0.015	44.137	0.015	44.180
0.015	44.222	0.015	44.265	0.015	44.307	0.015	44.350	0.015	44.392	0.015	44.435	0.015	44.477	0.015	44.519
0.015	44.562	0.015	44.605	0.015	44.647	0.015	44.689	0.015	44.732	0.015	44.774	0.015	44.817	0.015	44.859
0.015	44.902	0.015	44.944	0.015	44.987	0.015	45.029	0.015	45.072	0.015	45.114	0.015	45.157	0.015	45.199
0.015	45.242	0.015	45.284	0.015	45.327	0.015	45.369	0.015	45.412	0.015	45.454	0.015	45.497	0.015	45.539
0.015	45.581	0.015	45.624	0.015	45.666	0.015	45.709	0.015	45.751	0.015	45.794	0.015	45.836	0.015	45.879
0.015	45.921	0.015	45.964	0.015	46.006	0.015	46.049	0.015	46.091	0.015	46.134	0.015	46.176	0.015	46.219
0.015	46.261	0.015	46.304	0.015	46.346	0.015	46.389	0.016	46.431	0.016	46.474	0.016	46.516	0.016	46.559
0.016	46.601	0.016	46.644	0.016	46.686	0.016	46.728	0.016	46.771	0.016	46.813	0.016	46.856	0.016	46.898
0.016	46.941	0.016	46.983	0.016	47.026	0.016	47.068	0.016	47.111	0.016	47.153	0.016	47.196	0.016	47.238
0.016	47.281	0.016	47.323	0.016	47.366	0.016	47.408	0.016	47.451	0.016	47.493	0.016	47.536	0.017	47.578
0.017	47.621	0.017	47.663	0.017	47.706	0.017	47.748	0.017	47.791	0.017	47.833	0.017	47.875	0.017	47.918
0.017	47.960	0.017	48.003	0.017	48.045	0.017	48.088	0.017	48.130	0.017	48.173	0.017	48.215	0.017	48.258
0.017	48.300	0.018	48.343	0.018	48.385	0.018	48.428	0.018	48.470	0.018	48.513	0.018	48.555	0.018	48.598
0.018	48.640	0.018	48.683	0.018	48.725	0.018	48.768	0.018	48.810	0.018	48.853	0.018	48.895	0.018	48.937
0.018	48.980	0.018	49.022	0.018	49.065	0.018	49.107	0.018	49.150	0.018	49.192	0.019	49.235	0.019	49.277
0.019	49.320	0.019	49.362	0.020	49.405	0.020	49.447	0.020	49.490	0.020	49.532	0.020	49.575	0.020	49.617
0.020	49.660	0.020	49.702	0.020	49.745	0.020	49.787	0.020	49.830	0.020	49.872	0.020	49.915	0.020	49.957
0.020	50.000	0.020	50.042	0.020	50.084	0.020	50.127	0.020	50.169	0.020	50.212	0.020	50.254	0.020	50.297
0.020	50.339	0.020	50.382	0.020	50.424	0.020	50.467	0.020	50.509	0.020	50.552	0.020	50.594	0.020	50.637
0.020	50.679	0.020	50.722	0.020	50.764	0.020	50.807	0.020	50.849	0.020	50.892	0.020	50.934	0.020	50.977
0.020	51.019	0.020	51.062	0.020	51.104	0.020	51.146	0.020	51.189	0.020	51.231	0.020	51.274	0.020	51.316
0.020	51.359	0.020	51.401	0.020	51.444	0.020	51.486	0.020	51.529	0.020	51.571	0.020	51.614	0.020	51.656
0.020	51.699	0.020	51.741	0.020	51.784	0.020	51.826	0.020	51.869	0.020	51.911	0.020	51.954	0.020	51.996
0.020	52.039	0.020	52.081	0.020	52.124	0.020	52.166	0.020	52.209	0.020	52.251	0.020	52.293	0.020	52.336
0.020	52.378	0.020	52.421	0.020	52.463	0.020	52.506	0.020	52.548	0.020	52.591	0.020	52.633	0.020	52.676
0.020	52.718	0.020	52.761	0.020	52.803	0.020	52.846	0.020	52.888	0.020	52.931	0.020	52.973	0.020	53.016
0.020	53.058	0.020	53.101	0.020	53.143	0.020	53.186	0.020	53.228	0.020	53.271	0.020	53.313	0.020	53.355
0.020	53.398	0.020	53.440	0.020	53.483	0.020	53.525	0.020	53.568	0.020	53.610	0.020	53.653	0.020	53.695
0.020	53.738	0.020	53.780	0.020	53.823	0.020	53.865	0.020	53.908	0.020	53.950	0.020	53.993	0.020	54.035
0.020	54.078	0.020	54.120	0.020	54.163	0.020	54.205	0.020	54.248	0.020	54.290	0.020	54.333	0.020	54.375
0.020	54.418	0.020	54.460	0.020	54.502	0.020	54.545	0.020	54.587	0.020	54.630	0.020	54.672	0.020	54.715
0.020	54.757	0.020	54.800	0.020	54.842	0.020	54.885	0.020	54.927	0.020	54.970	0.020	55.012	0.020	55.055
0.020	55.097	0.020	55.140	0.020	55.182	0.020	55.225	0.020	55.267	0.020	55.310	0.020	55.352	0.020	55.395
0.020	55.437	0.020	55.480	0.020	55.522	0.020	55.565	0.020	55.607	0.020	55.649	0.020	55.692	0.020	55.734
0.020	55.777	0.020	55.819	0.020	55.862	0.020	55.904	0.020	55.947	0.020	55.989	0.020	56.032	0.020	56.074

0.020	56.117	0.020	56.159	0.020	56.202	0.020	56.244	0.020	56.287	0.020	56.329	0.020	56.372	0.020	56.414
0.020	56.457	0.020	56.499	0.020	56.542	0.020	56.584	0.020	56.627	0.020	56.669	0.020	56.711	0.020	56.754
0.020	56.796	0.020	56.839	0.020	56.881	0.020	56.924	0.020	56.966	0.020	57.009	0.020	57.051	0.020	57.094
0.020	57.136	0.020	57.179	0.020	57.221	0.020	57.264	0.020	57.306	0.020	57.349	0.020	57.391	0.020	57.434
0.020	57.476	0.020	57.519	0.020	57.561	0.020	57.604	0.020	57.646	0.020	57.689	0.020	57.731	0.020	57.774
0.020	57.816	0.020	57.858	0.020	57.901	0.020	57.943	0.020	57.986	0.020	58.028	0.020	58.071	0.020	58.113
0.020	58.156	0.020	58.198	0.020	58.241	0.020	58.283	0.020	58.326	0.021	58.368	0.021	58.411	0.021	58.453
0.021	58.496	0.021	58.538	0.021	58.581	0.021	58.623	0.021	58.666	0.021	58.708	0.021	58.751	0.021	58.793
0.021	58.836	0.021	58.878	0.021	58.920	0.022	58.963	0.022	59.005	0.022	59.048	0.022	59.090	0.022	59.133
0.022	59.175	0.022	59.218	0.022	59.260	0.022	59.303	0.022	59.345	0.022	59.388	0.022	59.430	0.022	59.473
0.022	59.515	0.022	59.558	0.022	59.600	0.022	59.643	0.022	59.685	0.022	59.728	0.022	59.770	0.022	59.813
0.022	59.855	0.022	59.898	0.022	59.940	0.023	59.983	0.023	60.025	0.023	60.067	0.023	60.110	0.023	60.152
0.023	60.195	0.023	60.237	0.023	60.280	0.023	60.322	0.023	60.365	0.023	60.407	0.023	60.450	0.023	60.492
0.023	60.535	0.023	60.577	0.023	60.620	0.023	60.662	0.023	60.705	0.023	60.747	0.023	60.790	0.023	60.832
0.023	60.875	0.023	60.917	0.023	60.960	0.023	61.002	0.023	61.045	0.024	61.087	0.024	61.129	0.024	61.172
0.024	61.214	0.024	61.257	0.024	61.299	0.024	61.342	0.024	61.384	0.024	61.427	0.024	61.469	0.024	61.512
0.024	61.554	0.024	61.597	0.024	61.639	0.025	61.682	0.025	61.724	0.025	61.767	0.025	61.809	0.025	61.852
0.025	61.894	0.025	61.937	0.025	61.979	0.025	62.022	0.025	62.064	0.025	62.107	0.025	62.149	0.025	62.192
0.025	62.234	0.025	62.276	0.025	62.319	0.025	62.361	0.025	62.404	0.025	62.446	0.025	62.489	0.025	62.531
0.025	62.574	0.025	62.616	0.025	62.659	0.025	62.701	0.025	62.744	0.025	62.786	0.025	62.829	0.025	62.871
0.025	62.914	0.025	62.956	0.025	62.999	0.025	63.041	0.025	63.084	0.025	63.126	0.025	63.169	0.025	63.211
0.025	63.254	0.025	63.296	0.025	63.339	0.025	63.381	0.025	63.423	0.025	63.466	0.025	63.508	0.025	63.551
0.025	63.593	0.025	63.636	0.025	63.678	0.025	63.721	0.025	63.763	0.025	63.806	0.025	63.848	0.025	63.891
0.025	63.933	0.026	63.976	0.026	64.018	0.026	64.061	0.026	64.103	0.026	64.146	0.026	64.188	0.026	64.231
0.026	64.273	0.026	64.316	0.026	64.358	0.026	64.401	0.026	64.443	0.026	64.485	0.026	64.528	0.026	64.570
0.026	64.613	0.026	64.655	0.026	64.698	0.026	64.740	0.026	64.783	0.026	64.825	0.026	64.868	0.026	64.910
0.026	64.953	0.026	64.995	0.026	65.038	0.027	65.080	0.027	65.123	0.027	65.165	0.027	65.208	0.027	65.250
0.027	65.293	0.027	65.335	0.027	65.378	0.027	65.420	0.027	65.463	0.027	65.505	0.027	65.548	0.027	65.590
0.027	65.632	0.027	65.675	0.027	65.717	0.028	65.760	0.028	65.802	0.028	65.845	0.028	65.887	0.028	65.930
0.028	65.972	0.028	66.015	0.028	66.057	0.028	66.100	0.028	66.142	0.028	66.185	0.028	66.227	0.028	66.270
0.028	66.312	0.028	66.355	0.029	66.397	0.029	66.440	0.029	66.482	0.029	66.525	0.029	66.567	0.029	66.610
0.029	66.652	0.030	66.694	0.030	66.737	0.030	66.779	0.030	66.822	0.030	66.864	0.030	66.907	0.030	66.949
0.030	66.992	0.030	67.034	0.030	67.077	0.030	67.119	0.030	67.162	0.030	67.204	0.030	67.247	0.030	67.289
0.030	67.332	0.030	67.374	0.030	67.417	0.030	67.459	0.030	67.502	0.030	67.544	0.030	67.587	0.030	67.629
0.030	67.672	0.030	67.714	0.030	67.757	0.030	67.799	0.030	67.841	0.030	67.884	0.030	67.926	0.030	67.969
0.030	68.011	0.030	68.059	0.030	68.096	0.030	68.139	0.030	68.181	0.030	68.224	0.030	68.266	0.030	68.309
0.030	68.351	0.030	68.394	0.030	68.436	0.030	68.479	0.030	68.521	0.030	68.564	0.030	68.606	0.030	68.649
0.030	68.691	0.030	68.734	0.030	68.776	0.030	68.819	0.030	68.861	0.030	68.904	0.030	68.946	0.030	68.989
0.030	69.031	0.030	69.073	0.030	69.116	0.030	69.158	0.030	69.201	0.030	69.243	0.030	69.286	0.030	69.328
0.030	69.371	0.030	69.413	0.030	69.456	0.030	69.498	0.030	69.541	0.030	69.583	0.030	69.626	0.030	69.668
0.030	69.711	0.030	69.753	0.030	69.796	0.030	69.838	0.030	69.881	0.030	69.923	0.030	69.966	0.030	70.008
0.030	70.050	0.030	70.093	0.030	70.135	0.030	70.178	0.030	70.220	0.030	70.263	0.030	70.305	0.030	70.348
0.030	70.390	0.030	70.433	0.030	70.475	0.030	70.518	0.030	70.560	0.030	70.603	0.030	70.645	0.030	70.688
0.030	70.730	0.030	70.773	0.030	70.815	0.030	70.858	0.030	70.900	0.030	70.943	0.030	70.985	0.031	71.028
0.031	71.070	0.031	71.113	0.031	71.155	0.031	71.197	0.031	71.240	0.031	71.282	0.031	71.325	0.032	71.367
0.032	71.410	0.032	71.452	0.032	71.495	0.032	71.537	0.032	71.580	0.032	71.622	0.032	71.665	0.032	71.707
0.032	71.750	0.032	71.792	0.032	71.835	0.032	71.877	0.032	71.920	0.032	71.962	0.032	72.005	0.032	72.047
0.032	72.090	0.033	72.132	0.033	72.175	0.033	72.217	0.033	72.259	0.033	72.302	0.033	72.344	0.033	72.387
0.033	72.429	0.033	72.472	0.033	72.514	0.033	72.557	0.033	72.599	0.033	72.642	0.033	72.684	0.033	72.727
0.033	72.769	0.033	72.812	0.033	72.854	0.033	72.897	0.034	72.939	0.034	72.982	0.034	73.024	0.034	73.067
0.034	73.109	0.034	73.152	0.034	73.194	0.034	73.237	0.034	73.279	0.035	73.322	0.035	73.364	0.035	73.406
0.035	73.449	0.035	73.491	0.035	73.534	0.035	73.576	0.035	73.619	0.035	73.661	0.035	73.704	0.035	73.746
0.035	73.789	0.035	73.831	0.035	73.874	0.035	73.916	0.035	73.959	0.035	74.001	0.035	74.044	0.035	74.086
0.035	74.129	0.035	74.171	0.035	74.214	0.035	74.256	0.035	74.299	0.036	74.341	0.036	74.384	0.036	74.426
0.036	74.468	0.036	74.511	0.036	74.553	0.036	74.596	0.036	74.638	0.036	74.681	0.036	74.723	0.036	74.765
0.036	74.808	0.036	74.851	0.037	74.893	0.037	74.936	0.037	74.978	0.037	75.021	0.037	75.063	0.037	75.106
0.037	75.148	0.037	75.191	0.038	75.233	0.038	75.276	0.038	75.318	0.038	75.361	0.038	75.403	0.038	75.446

0.038	75.488	0.038	75.531	0.039	75.573	0.039	75.615	0.039	75.658	0.040	75.700	0.040	75.743	0.040	75.785
0.040	75.828	0.040	75.870	0.040	75.913	0.040	75.955	0.040	75.998	0.040	76.040	0.040	76.083	0.040	76.125
0.040	76.168	0.040	76.210	0.040	76.253	0.040	76.295	0.040	76.338	0.040	76.380	0.040	76.423	0.040	76.465
0.040	76.508	0.040	76.550	0.040	76.593	0.040	76.635	0.040	76.678	0.040	76.720	0.040	76.762	0.040	76.805
0.040	76.847	0.040	76.890	0.040	76.932	0.040	76.975	0.040	77.017	0.040	77.060	0.040	77.102	0.040	77.145
0.040	77.187	0.040	77.230	0.040	77.272	0.040	77.315	0.040	77.357	0.040	77.400	0.040	77.442	0.040	77.485
0.040	77.527	0.040	77.570	0.040	77.612	0.040	77.655	0.040	77.697	0.040	77.740	0.040	77.782	0.040	77.824
0.040	77.867	0.040	77.909	0.040	77.952	0.040	77.994	0.040	78.037	0.040	78.079	0.040	78.122	0.040	78.164
0.040	78.207	0.041	78.249	0.041	78.292	0.041	78.334	0.042	78.377	0.042	78.419	0.042	78.462	0.042	78.504
0.042	78.547	0.042	78.589	0.042	78.632	0.042	78.674	0.042	78.717	0.043	78.759	0.043	78.802	0.043	78.844
0.043	78.887	0.044	78.929	0.044	78.971	0.044	79.014	0.044	79.056	0.044	79.099	0.044	79.141	0.044	79.184
0.044	79.226	0.044	79.269	0.045	79.311	0.045	79.354	0.045	79.396	0.045	79.439	0.045	79.481	0.045	79.524
0.045	79.566	0.045	79.609	0.045	79.651	0.045	79.694	0.045	79.736	0.045	79.779	0.045	79.821	0.045	79.864
0.045	79.906	0.045	79.949	0.045	79.991	0.045	80.033	0.045	80.076	0.045	80.118	0.045	80.161	0.045	80.203
0.045	80.246	0.045	80.288	0.045	80.331	0.045	80.373	0.045	80.416	0.046	80.458	0.046	80.501	0.046	80.543
0.046	80.586	0.046	80.628	0.046	80.671	0.047	80.713	0.047	80.756	0.047	80.798	0.047	80.841	0.047	80.883
0.047	80.926	0.048	80.968	0.048	81.011	0.048	81.053	0.048	81.096	0.048	81.138	0.049	81.180	0.049	81.223
0.049	81.265	0.049	81.308	0.050	81.350	0.050	81.393	0.050	81.435	0.050	81.478	0.050	81.520	0.050	81.563
0.050	81.605	0.050	81.648	0.050	81.690	0.050	81.733	0.050	81.775	0.050	81.818	0.050	81.860	0.050	81.903
0.050	81.945	0.050	81.988	0.050	82.030	0.050	82.073	0.050	82.115	0.050	82.158	0.050	82.200	0.050	82.242
0.050	82.285	0.050	82.327	0.050	82.370	0.050	82.412	0.050	82.455	0.050	82.497	0.050	82.540	0.050	82.582
0.050	82.625	0.050	82.667	0.050	82.710	0.050	82.752	0.050	82.795	0.050	82.837	0.050	82.880	0.050	82.922
0.050	82.965	0.051	83.007	0.051	83.050	0.051	83.092	0.051	83.135	0.051	83.177	0.052	83.220	0.052	83.262
0.052	83.305	0.052	83.347	0.052	83.389	0.052	83.432	0.052	83.474	0.053	83.517	0.053	83.559	0.053	83.602
0.053	83.644	0.053	83.687	0.053	83.729	0.053	83.772	0.053	83.814	0.053	83.857	0.054	83.899	0.054	83.942
0.054	83.984	0.054	84.027	0.054	84.069	0.054	84.112	0.054	84.154	0.054	84.197	0.054	84.239	0.055	84.282
0.055	84.324	0.055	84.367	0.055	84.409	0.055	84.452	0.055	84.494	0.055	84.536	0.055	84.579	0.055	84.621
0.055	84.664	0.055	84.706	0.055	84.749	0.056	84.791	0.056	84.834	0.056	84.876	0.056	84.919	0.056	84.961
0.056	85.004	0.056	85.046	0.056	85.089	0.056	85.131	0.056	85.174	0.056	85.216	0.057	85.259	0.057	85.301
0.058	85.344	0.059	85.386	0.060	85.429	0.060	85.471	0.060	85.514	0.060	85.556	0.060	85.598	0.060	85.641
0.060	85.683	0.060	85.726	0.060	85.768	0.060	85.811	0.060	85.853	0.060	85.896	0.060	85.938	0.060	85.981
0.060	86.023	0.060	86.066	0.060	86.108	0.060	86.151	0.060	86.193	0.060	86.236	0.060	86.278	0.060	86.321
0.060	86.363	0.060	86.406	0.060	86.448	0.060	86.491	0.060	86.533	0.060	86.576	0.060	86.618	0.060	86.661
0.060	86.703	0.060	86.745	0.060	86.788	0.060	86.830	0.060	86.873	0.060	86.915	0.061	86.958	0.061	87.000
0.061	87.043	0.062	87.085	0.062	87.128	0.062	87.170	0.063	87.213	0.063	87.255	0.063	87.298	0.063	87.340
0.063	87.383	0.064	87.425	0.065	87.468	0.065	87.510	0.065	87.553	0.065	87.595	0.065	87.638	0.065	87.680
0.065	87.723	0.065	87.765	0.065	87.807	0.065	87.850	0.066	87.892	0.066	87.935	0.067	87.977	0.067	88.020
0.067	88.062	0.067	88.105	0.067	88.147	0.070	88.190	0.070	88.232	0.070	88.275	0.070	88.317	0.070	88.360
0.070	88.402	0.070	88.445	0.070	88.487	0.070	88.530	0.070	88.572	0.070	88.615	0.070	88.657	0.070	88.700
0.070	88.742	0.070	88.785	0.070	88.827	0.070	88.870	0.070	88.912	0.070	88.954	0.070	88.997	0.070	89.039
0.071	89.082	0.071	89.124	0.072	89.167	0.072	89.209	0.073	89.252	0.073	89.294	0.073	89.337	0.073	89.379
0.073	89.422	0.074	89.464	0.074	89.507	0.074	89.549	0.075	89.592	0.075	89.634	0.075	89.677	0.075	89.719
0.076	89.762	0.076	89.804	0.076	89.847	0.076	89.889	0.076	89.932	0.077	89.974	0.077	90.016	0.077	90.059
0.077	90.101	0.080	90.144	0.080	90.186	0.080	90.229	0.080	90.271	0.080	90.314	0.080	90.356	0.080	90.399
0.080	90.441	0.080	90.484	0.080	90.526	0.080	90.569	0.080	90.611	0.080	90.654	0.080	90.696	0.080	90.739
0.080	90.781	0.082	90.824	0.082	90.866	0.082	90.909	0.083	90.951	0.083	90.994	0.084	91.036	0.084	91.079
0.085	91.121	0.085	91.163	0.085	91.206	0.085	91.248	0.085	91.291	0.086	91.333	0.087	91.376	0.087	91.418
0.088	91.461	0.088	91.503	0.090	91.546	0.090	91.588	0.090	91.631	0.090	91.673	0.090	91.716	0.090	91.758
0.090	91.801	0.090	91.843	0.090	91.886	0.090	91.928	0.090	91.971	0.090	92.013	0.090	92.056	0.091	92.098
0.092	92.141	0.092	92.183	0.092	92.226	0.094	92.268	0.095	92.310	0.095	92.353	0.095	92.395	0.095	92.438
0.095	92.480	0.095	92.523	0.095	92.565	0.095	92.608	0.096	92.650	0.096	92.693	0.097	92.735	0.097	92.778
0.100	92.820	0.100	92.863	0.100	92.905	0.100	92.948	0.100	92.990	0.100	93.033	0.100	93.075	0.100	93.118
0.100	93.160	0.100	93.203	0.105	93.245	0.105	93.288	0.105	93.330	0.105	93.372	0.105	93.415	0.106	93.457
0.106	93.500	0.106	93.542	0.106	93.585	0.107	93.627	0.110	93.670	0.110	93.712	0.110	93.755	0.110	93.797
0.110	93.840	0.110	93.882	0.112	93.925	0.112	93.967	0.114	94.010	0.115	94.052	0.115	94.095	0.118	94.137
0.120	94.180	0.120	94.222	0.120	94.265	0.120	94.307	0.120	94.350	0.120	94.392	0.120	94.435	0.120	94.477
0.120	94.519	0.120	94.562	0.120	94.604	0.120	94.647	0.120	94.689	0.120	94.732	0.123	94.774	0.123	94.817

0.123	94.859	0.125	94.902	0.125	94.944	0.125	94.987	0.126	95.029	0.126	95.072	0.127	95.114	0.128	95.157
0.130	95.199	0.130	95.242	0.130	95.284	0.130	95.327	0.130	95.369	0.130	95.412	0.130	95.454	0.130	95.497
0.130	95.539	0.130	95.582	0.130	95.624	0.130	95.666	0.133	95.709	0.135	95.751	0.135	95.794	0.136	95.835
0.136	95.879	0.137	95.921	0.138	95.964	0.138	96.006	0.140	96.049	0.140	96.091	0.140	96.134	0.140	96.176
0.140	96.219	0.140	96.261	0.140	96.304	0.142	96.346	0.146	96.389	0.147	96.431	0.150	96.474	0.154	96.515
0.155	96.559	0.155	96.601	0.160	96.644	0.160	96.686	0.160	96.728	0.160	96.771	0.160	96.813	0.163	96.856
0.165	96.898	0.167	96.941	0.167	96.983	0.170	97.026	0.170	97.068	0.170	97.111	0.172	97.153	0.176	97.196
0.180	97.238	0.180	97.281	0.183	97.323	0.190	97.366	0.190	97.408	0.190	97.451	0.190	97.493	0.191	97.536
0.195	97.578	0.200	97.621	0.200	97.663	0.200	97.706	0.200	97.748	0.200	97.791	0.200	97.833	0.201	97.875
0.210	97.918	0.210	97.960	0.213	98.003	0.216	98.045	0.216	98.088	0.220	98.130	0.228	98.173	0.230	98.215
0.230	98.258	0.233	98.300	0.235	98.343	0.240	98.385	0.240	98.428	0.260	98.470	0.265	98.513	0.266	98.555
0.270	98.598	0.270	98.640	0.270	98.683	0.272	98.725	0.275	98.768	0.276	98.810	0.290	98.853	0.290	98.895
0.302	98.937	0.320	98.980	0.325	99.022	0.330	99.065	0.341	99.107	0.345	99.150	0.350	99.192	0.350	99.235
0.350	99.277	0.390	99.320	0.390	99.362	0.412	99.405	0.416	99.447	0.426	99.490	0.420	99.532	0.475	99.575
0.480	99.617	0.503	99.660	0.520	99.702	0.530	99.745	0.640	99.787	0.650	99.830	0.650	99.872	0.655	99.915
0.675	99.957	0.760	100.000												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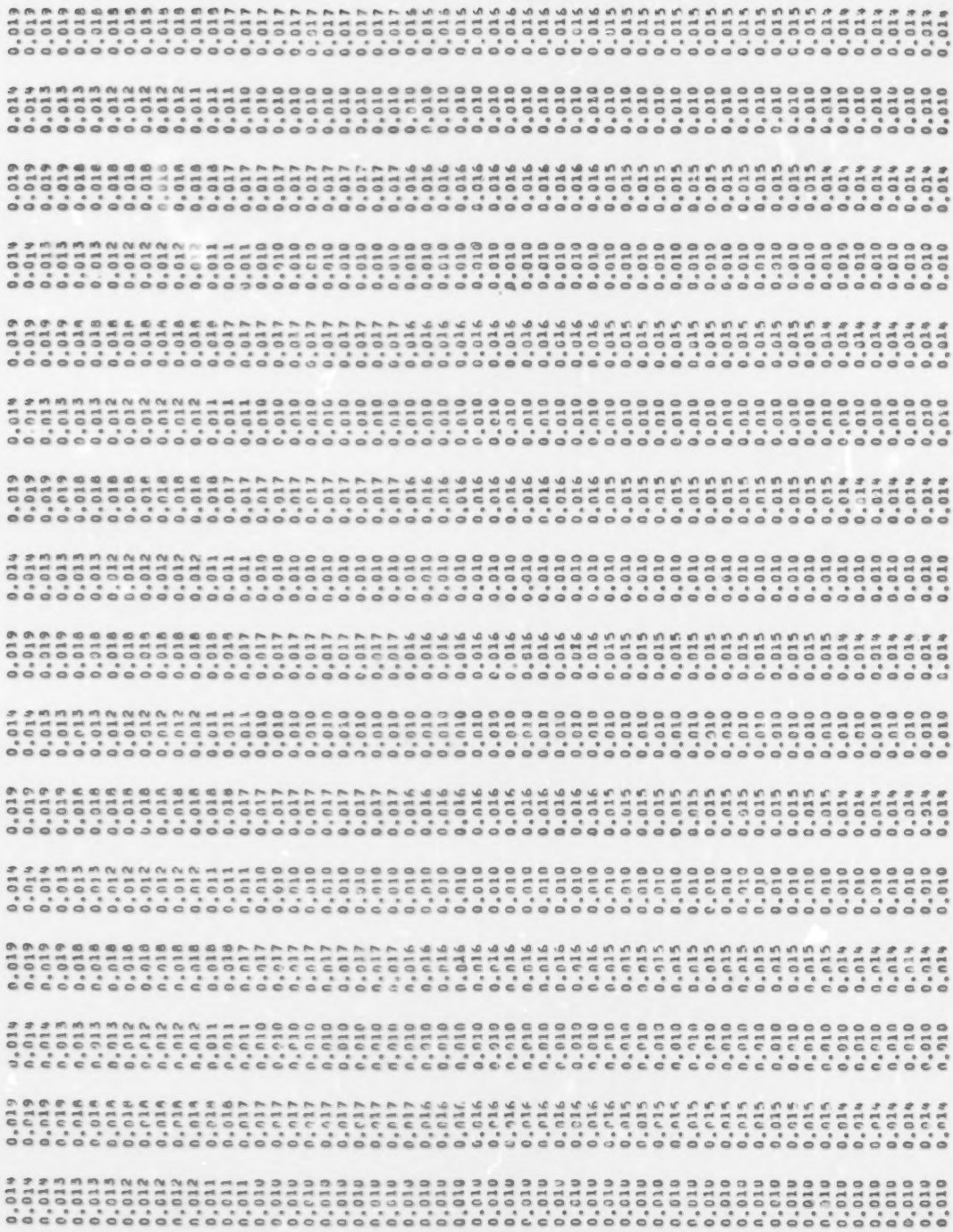
INTENSITY VS PERCENT LESS THAN OR EQUAL TO

RETURN PERIOD (IN YEARS) FOR INTENSITY

VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD
0.760	26.000	0.675	13.000	0.655	8.666	0.650	6.500	0.650	5.200	0.640	4.333	0.530	3.714	0.520	3.250
0.503	2.888	0.440	2.600	0.475	2.363	0.420	2.166	0.420	2.000	0.416	1.857	0.412	1.733	0.390	1.625
0.390	1.529	0.350	1.444	0.350	1.368	0.350	1.300	0.345	1.238	0.341	1.181	0.330	1.130	0.325	1.083
0.320	1.040	0.302	1.000	0.290	0.962	0.280	0.928	0.276	0.896	0.275	0.866	0.272	0.838	0.270	0.812
0.270	0.787	0.270	0.764	0.266	0.742	0.265	0.722	0.260	0.702	0.240	0.684	0.240	0.666	0.235	0.650
0.233	0.634	0.230	0.619	0.230	0.604	0.228	0.590	0.220	0.577	0.216	0.565	0.216	0.553	0.213	0.541
0.210	0.530	0.210	0.520	0.201	0.509	0.200	0.500	0.200	0.490	0.200	0.481	0.200	0.472	0.200	0.463
0.200	0.456	0.195	0.448	0.191	0.440	0.190	0.433	0.190	0.426	0.190	0.419	0.190	0.412	0.183	0.406
0.180	0.400	0.180	0.393	0.176	0.388	0.172	0.382	0.170	0.376	0.170	0.371	0.170	0.366	0.167	0.361
0.167	0.356	0.165	0.351	0.163	0.346	0.160	0.342	0.160	0.337	0.160	0.333	0.160	0.329	0.160	0.325
0.155	0.320	0.155	0.317	0.154	0.313	0.150	0.309	0.147	0.305	0.146	0.302	0.142	0.298	0.140	0.295
0.140	0.292	0.140	0.288	0.140	0.285	0.140	0.282	0.140	0.279	0.140	0.276	0.138	0.273	0.138	0.270
0.137	0.268	0.136	0.265	0.136	0.262	0.135	0.260	0.135	0.257	0.133	0.254	0.130	0.252	0.130	0.250
0.130	0.247	0.130	0.245	0.130	0.242	0.130	0.240	0.130	0.238	0.130	0.236	0.130	0.234	0.130	0.232
0.130	0.230	0.130	0.228	0.128	0.226	0.127	0.224	0.126	0.222	0.126	0.220	0.125	0.218	0.125	0.216
0.125	0.214	0.123	0.213	0.123	0.211	0.123	0.209	0.120	0.208	0.120	0.206	0.120	0.204	0.120	0.203
0.120	0.201	0.120	0.200	0.120	0.198	0.120	0.196	0.120	0.195	0.120	0.194	0.120	0.192	0.120	0.191
0.120	0.189	0.120	0.188	0.118	0.187	0.115	0.185	0.115	0.184	0.114	0.183	0.112	0.181	0.112	0.180
0.110	0.179	0.110	0.178	0.110	0.176	0.110	0.175	0.110	0.174	0.110	0.173	0.107	0.172	0.106	0.171
0.106	0.169	0.106	0.168	0.106	0.167	0.105	0.166	0.105	0.165	0.105	0.164	0.105	0.163	0.105	0.162
0.100	0.161	0.100	0.160	0.100	0.159	0.100	0.158	0.100	0.157	0.100	0.156	0.100	0.155	0.100	0.154
0.100	0.153	0.100	0.152	0.097	0.152	0.097	0.151	0.096	0.150	0.096	0.149	0.095	0.148	0.095	0.147
0.095	0.146	0.095	0.146	0.095	0.145	0.095	0.144	0.095	0.143	0.095	0.142	0.094	0.142	0.092	0.141
0.092	0.140	0.092	0.139	0.091	0.139	0.090	0.138	0.090	0.137	0.090	0.136	0.090	0.136	0.090	0.135
0.090	0.134	0.090	0.134	0.090	0.133	0.090	0.132	0.090	0.131	0.090	0.131	0.090	0.130	0.090	0.130
0.088	0.129	0.088	0.128	0.087	0.128	0.087	0.127	0.086	0.126	0.085	0.126	0.085	0.125	0.085	0.125
0.085	0.124	0.085	0.123	0.084	0.123	0.084	0.122	0.083	0.122	0.083	0.121	0.082	0.120	0.082	0.120
0.082	0.119	0.080	0.119	0.080	0.118	0.080	0.118	0.080	0.117	0.080	0.117	0.080	0.116	0.080	0.116
0.080	0.115	0.080	0.115	0.080	0.114	0.080	0.114	0.080	0.113	0.080	0.113	0.080	0.112	0.080	0.112
0.080	0.111	0.077	0.111	0.077	0.110	0.077	0.110	0.077	0.109	0.076	0.109	0.076	0.108	0.076	0.108
0.076	0.107	0.076	0.107	0.075	0.106	0.075	0.106	0.075	0.106	0.075	0.105	0.074	0.105	0.074	0.104
0.074	0.104	0.073	0.104	0.073	0.103	0.073	0.103	0.073	0.102	0.073	0.102	0.072	0.101	0.072	0.101
0.071	0.101	0.071	0.100	0.070	0.100	0.070	0.100	0.070	0.099	0.070	0.099	0.070	0.098	0.070	0.098
0.070	0.098	0.070	0.097	0.070	0.097	0.070	0.097	0.070	0.096	0.070	0.096	0.070	0.095	0.070	0.095
0.070	0.095	0.070	0.094	0.070	0.094	0.070	0.094	0.070	0.093	0.070	0.093	0.070	0.093	0.067	0.092
0.067	0.092	0.067	0.092	0.067	0.091	0.067	0.091	0.066	0.091	0.066	0.090	0.065	0.090	0.065	0.090
0.065	0.089	0.065	0.089	0.065	0.089	0.065	0.089	0.065	0.088	0.065	0.088	0.065	0.088	0.065	0.087
0.064	0.087	0.063	0.087	0.063	0.086	0.063	0.086	0.063	0.086	0.063	0.086	0.062	0.085	0.062	0.085
0.062	0.086	0.061	0.084	0.061	0.084	0.061	0.084	0.060	0.084	0.060	0.083	0.060	0.083	0.060	0.083
0.060	0.083	0.060	0.082	0.060	0.082	0.060	0.082	0.060	0.082	0.060	0.081	0.060	0.081	0.060	0.081
0.060	0.080	0.060	0.080	0.060	0.080	0.060	0.080	0.060	0.080	0.060	0.079	0.060	0.079	0.060	0.079
0.060	0.079	0.060	0.078	0.060	0.078	0.060	0.078	0.060	0.078	0.060	0.077	0.060	0.077	0.060	0.077
0.060	0.077	0.060	0.076	0.060	0.076	0.060	0.076	0.060	0.076	0.060	0.076	0.060	0.075	0.060	0.075
0.059	0.075	0.058	0.075	0.057	0.074	0.057	0.074	0.056	0.074	0.056	0.074	0.056	0.074	0.056	0.073
0.056	0.073	0.056	0.073	0.056	0.073	0.056	0.073	0.056	0.072	0.056	0.072	0.056	0.072	0.055	0.072
0.055	0.072	0.055	0.071	0.055	0.071	0.055	0.071	0.055	0.071	0.055	0.071	0.055	0.070	0.055	0.070
0.055	0.070	0.055	0.070	0.055	0.070	0.054	0.069	0.054	0.069	0.054	0.069	0.054	0.069	0.054	0.069
0.054	0.068	0.054	0.068	0.054	0.068	0.054	0.068	0.053	0.068	0.053	0.068	0.053	0.067	0.053	0.067
0.053	0.067	0.053	0.067	0.053	0.067	0.053	0.067	0.053	0.066	0.052	0.066	0.052	0.066	0.052	0.066
0.052	0.066	0.052	0.065	0.052	0.065	0.052	0.065	0.051	0.065	0.051	0.065	0.051	0.065	0.051	0.065
0.051	0.064	0.050	0.064	0.050	0.064	0.050	0.064	0.050	0.064	0.050	0.064	0.050	0.063	0.050	0.063
0.050	0.063	0.050	0.063	0.050	0.063	0.050	0.063	0.050	0.062	0.050	0.062	0.050	0.062	0.050	0.062
0.050	0.062	0.050	0.062	0.050	0.062	0.050	0.061	0.050	0.061	0.050	0.061	0.050	0.061	0.050	0.061

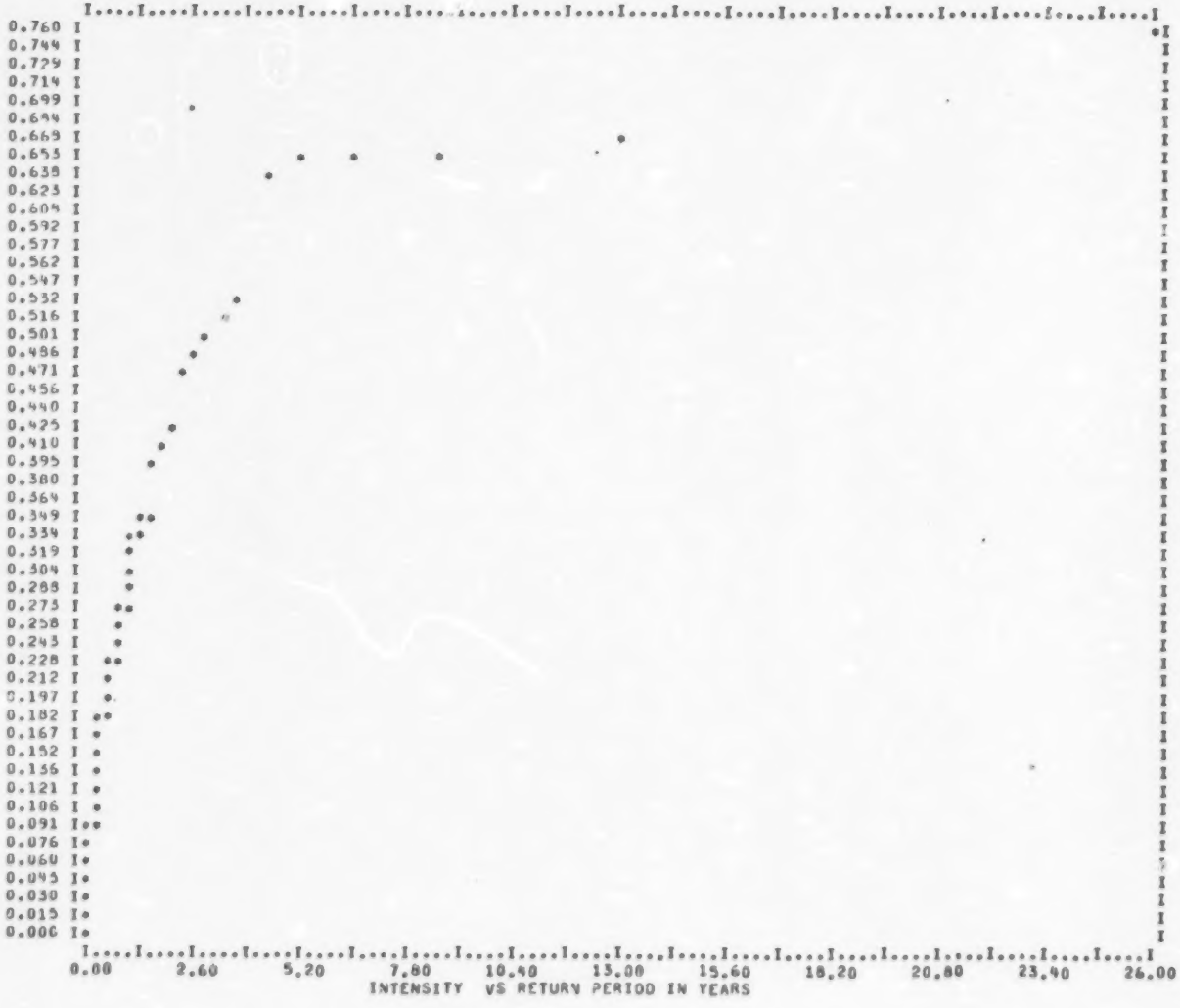
0.050	0.061	0.050	0.061	0.050	0.060	0.050	0.060	0.050	0.060	0.050	0.060	0.050	0.060	0.050	0.060
0.050	0.060	0.050	0.059	0.050	0.059	0.050	0.059	0.050	0.059	0.050	0.059	0.050	0.059	0.050	0.059
0.049	0.058	0.049	0.058	0.049	0.058	0.048	0.058	0.048	0.058	0.048	0.058	0.048	0.058	0.048	0.058
0.048	0.057	0.047	0.057	0.047	0.057	0.047	0.057	0.047	0.057	0.047	0.057	0.047	0.057	0.046	0.057
0.046	0.056	0.046	0.056	0.046	0.056	0.046	0.056	0.046	0.056	0.045	0.056	0.045	0.056	0.045	0.056
0.045	0.055	0.045	0.055	0.045	0.055	0.045	0.055	0.045	0.055	0.045	0.055	0.045	0.055	0.045	0.055
0.045	0.054	0.045	0.054	0.045	0.054	0.045	0.054	0.045	0.054	0.045	0.054	0.045	0.054	0.045	0.054
0.045	0.054	0.045	0.053	0.045	0.053	0.045	0.053	0.045	0.053	0.045	0.053	0.045	0.053	0.045	0.053
0.044	0.053	0.044	0.053	0.044	0.052	0.044	0.052	0.044	0.052	0.044	0.052	0.044	0.052	0.044	0.052
0.044	0.052	0.043	0.052	0.043	0.052	0.043	0.052	0.043	0.051	0.042	0.051	0.042	0.051	0.042	0.051
0.042	0.051	0.042	0.051	0.042	0.051	0.042	0.051	0.042	0.051	0.042	0.050	0.041	0.050	0.041	0.050
0.041	0.050	0.040	0.050	0.040	0.050	0.040	0.050	0.040	0.050	0.040	0.050	0.040	0.050	0.040	0.050
0.040	0.049	0.040	0.049	0.040	0.049	0.040	0.049	0.040	0.049	0.040	0.049	0.040	0.049	0.040	0.049
0.040	0.049	0.040	0.049	0.040	0.048	0.040	0.048	0.040	0.048	0.040	0.048	0.040	0.048	0.040	0.049
0.040	0.048	0.040	0.048	0.040	0.048	0.040	0.048	0.040	0.048	0.040	0.047	0.040	0.047	0.040	0.047
0.040	0.047	0.040	0.047	0.040	0.047	0.040	0.047	0.040	0.047	0.040	0.047	0.040	0.047	0.040	0.047
0.040	0.047	0.040	0.046	0.040	0.046	0.040	0.046	0.040	0.046	0.040	0.046	0.040	0.046	0.040	0.046
0.040	0.046	0.040	0.046	0.040	0.046	0.040	0.046	0.040	0.046	0.040	0.045	0.040	0.045	0.040	0.045
0.040	0.045	0.040	0.045	0.040	0.045	0.040	0.045	0.040	0.045	0.039	0.045	0.039	0.045	0.039	0.045
0.038	0.045	0.038	0.044	0.038	0.044	0.038	0.044	0.038	0.044	0.038	0.044	0.038	0.044	0.038	0.044
0.037	0.044	0.037	0.044	0.037	0.044	0.037	0.044	0.037	0.044	0.037	0.044	0.037	0.043	0.037	0.043
0.036	0.043	0.036	0.043	0.036	0.043	0.036	0.043	0.036	0.043	0.036	0.043	0.036	0.043	0.036	0.043
0.036	0.043	0.036	0.043	0.036	0.043	0.036	0.043	0.036	0.042	0.035	0.042	0.035	0.042	0.035	0.042
0.035	0.042	0.035	0.042	0.035	0.042	0.035	0.042	0.035	0.042	0.035	0.042	0.035	0.042	0.035	0.042
0.035	0.042	0.035	0.042	0.035	0.042	0.035	0.041	0.035	0.041	0.035	0.041	0.035	0.041	0.035	0.041
0.035	0.041	0.035	0.041	0.035	0.041	0.035	0.041	0.035	0.041	0.034	0.041	0.034	0.041	0.034	0.041
0.034	0.041	0.034	0.041	0.034	0.040	0.034	0.040	0.034	0.040	0.034	0.040	0.033	0.040	0.033	0.040
0.033	0.040	0.033	0.040	0.033	0.040	0.033	0.040	0.033	0.040	0.033	0.040	0.033	0.040	0.033	0.040
0.033	0.040	0.033	0.040	0.033	0.039	0.033	0.039	0.033	0.039	0.033	0.039	0.033	0.039	0.033	0.039
0.033	0.039	0.032	0.039	0.032	0.039	0.032	0.039	0.032	0.039	0.032	0.039	0.032	0.039	0.032	0.039
0.032	0.039	0.032	0.039	0.032	0.038	0.032	0.038	0.032	0.038	0.032	0.038	0.032	0.038	0.032	0.038
0.032	0.038	0.032	0.038	0.032	0.038	0.031	0.038	0.031	0.038	0.031	0.038	0.031	0.038	0.031	0.038
0.031	0.038	0.031	0.038	0.031	0.038	0.030	0.038	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037
0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037
0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.037	0.030	0.036	0.030	0.036
0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036
0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036	0.030	0.036
0.030	0.036	0.030	0.036	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035
0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035
0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.035	0.030	0.034	0.030	0.034
0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034
0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034
0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.034	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033
0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033
0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033	0.030	0.033
0.030	0.033	0.029	0.033	0.029	0.033	0.029	0.032	0.029	0.032	0.029	0.032	0.029	0.032	0.029	0.032
0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032
0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.028	0.032	0.027	0.032
0.027	0.032	0.027	0.032	0.027	0.032	0.027	0.032	0.027	0.031	0.027	0.031	0.027	0.031	0.027	0.031
0.027	0.031	0.027	0.031	0.027	0.031	0.027	0.031	0.027	0.031	0.027	0.031	0.027	0.031	0.026	0.031
0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031
0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.031	0.026	0.030	0.026	0.030
0.026	0.030	0.026	0.030	0.026	0.030	0.026	0.030	0.026	0.030	0.026	0.030	0.026	0.030	0.026	0.030
0.026	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030
0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030	0.025	0.030
0.025	0.030	0.025	0.030	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029
0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029

0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029
0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029	0.025	0.029
0.025	0.028	0.025	0.028	0.025	0.028	0.025	0.028	0.025	0.028	0.025	0.028	0.025	0.028	0.024	0.028
0.024	0.028	0.024	0.028	0.024	0.028	0.024	0.028	0.024	0.028	0.024	0.028	0.024	0.028	0.024	0.028
0.024	0.028	0.024	0.028	0.024	0.028	0.024	0.028	0.024	0.028	0.023	0.028	0.023	0.028	0.023	0.028
0.023	0.028	0.023	0.028	0.023	0.028	0.023	0.028	0.023	0.028	0.023	0.028	0.023	0.028	0.023	0.028
0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027
0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.023	0.027	0.022	0.027
0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027
0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027	0.022	0.027
0.022	0.027	0.022	0.027	0.022	0.026	0.022	0.026	0.022	0.026	0.022	0.026	0.022	0.026	0.021	0.026
0.021	0.026	0.021	0.026	0.021	0.026	0.021	0.026	0.021	0.026	0.021	0.026	0.021	0.026	0.021	0.026
0.021	0.026	0.021	0.026	0.021	0.026	0.021	0.026	0.021	0.026	0.020	0.026	0.020	0.026	0.020	0.026
0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026
0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026	0.020	0.026
0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025
0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025
0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025
0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025
0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025	0.020	0.025
0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024
0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024
0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024
0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024
0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024
0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024
0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024	0.020	0.024
0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023
0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023
0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023
0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023
0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023
0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023	0.020	0.023
0.020	0.023	0.020	0.023	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022
0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022
0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022
0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022
0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022
0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022	0.020	0.022
0.020	0.021	0.020	0.021	0.020	0.021	0.020	0.021	0.020	0.021	0.020	0.021	0.020	0.021	0.020	0.021
0.019	0.021	0.019	0.021	0.019	0.021	0.019	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021
0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021
0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021	0.018	0.021
0.018	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021
0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021	0.017	0.021
0.017	0.021	0.017	0.021	0.017	0.021	0.016	0.021	0.016	0.021	0.016	0.021	0.016	0.020	0.016	0.020
0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020
0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020
0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.016	0.020	0.015	0.020	0.015	0.020
0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020
0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020
0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020
0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020
0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019
0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019
0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019
0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.015	0.019	0.014	0.019	0.014	0.019



0.010	0.014	0.010	0.014	0.010	0.014	0.010	0.014	0.010	0.014	0.010	0.014	0.010	0.014	0.010	0.014

0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011
0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011
0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011
0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011	0.007	0.011
0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011
0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011
0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011
0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011
0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011
0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011	0.006	0.011
0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011
0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011
0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011	0.005	0.011
0.004	0.011	0.004	0.011												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26.00
INTENSITY VS RETURN PERIOD IN YEARS

PROBABILITY ANALYSIS-VOLUME

PERCENTAGE OF OCCURRENCE LESS THAN OR EQUAL TO THE GIVEN VALUE OF VOLUME

VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT
0.010	0.042	0.010	0.084	0.010	0.127	0.010	0.169	0.010	0.212	0.010	0.254	0.010	0.297	0.010	0.339
0.010	0.382	0.010	0.424	0.010	0.467	0.010	0.509	0.010	0.552	0.010	0.594	0.010	0.637	0.010	0.679
0.010	0.722	0.010	0.764	0.010	0.807	0.010	0.849	0.010	0.892	0.010	0.934	0.010	0.977	0.010	1.019
0.010	1.062	0.010	1.104	0.010	1.146	0.010	1.189	0.010	1.231	0.010	1.274	0.010	1.316	0.010	1.359
0.010	1.401	0.010	1.444	0.010	1.486	0.010	1.529	0.010	1.571	0.010	1.614	0.010	1.656	0.010	1.699
0.010	1.741	0.010	1.784	0.010	1.826	0.010	1.869	0.010	1.911	0.010	1.954	0.010	1.996	0.010	2.039
0.010	2.081	0.010	2.124	0.010	2.166	0.010	2.209	0.010	2.251	0.010	2.293	0.010	2.336	0.010	2.378
0.010	2.421	0.010	2.463	0.010	2.506	0.010	2.548	0.010	2.591	0.010	2.633	0.010	2.676	0.010	2.718
0.010	2.761	0.010	2.803	0.010	2.846	0.010	2.888	0.010	2.931	0.010	2.973	0.010	3.016	0.010	3.058
0.010	3.101	0.010	3.143	0.010	3.186	0.010	3.228	0.010	3.271	0.010	3.313	0.010	3.355	0.010	3.398
0.010	3.440	0.010	3.483	0.010	3.525	0.010	3.568	0.010	3.610	0.010	3.653	0.010	3.695	0.010	3.738
0.010	3.780	0.010	3.823	0.010	3.865	0.010	3.908	0.010	3.950	0.010	3.993	0.010	4.035	0.010	4.078
0.010	4.120	0.010	4.163	0.010	4.205	0.010	4.248	0.010	4.290	0.010	4.333	0.010	4.375	0.010	4.418
0.010	4.460	0.010	4.502	0.010	4.545	0.010	4.587	0.010	4.630	0.010	4.672	0.010	4.715	0.010	4.757
0.010	4.800	0.010	4.842	0.010	4.885	0.010	4.927	0.010	4.970	0.010	5.012	0.010	5.055	0.010	5.097
0.010	5.140	0.010	5.182	0.010	5.225	0.010	5.267	0.010	5.310	0.010	5.352	0.010	5.395	0.010	5.437
0.010	5.480	0.010	5.522	0.010	5.564	0.010	5.607	0.010	5.649	0.010	5.692	0.010	5.734	0.010	5.777
0.010	5.819	0.010	5.862	0.010	5.904	0.010	5.947	0.010	5.989	0.010	6.032	0.010	6.074	0.010	6.117
0.010	6.159	0.010	6.202	0.010	6.244	0.010	6.287	0.010	6.329	0.010	6.372	0.010	6.414	0.010	6.457
0.010	6.499	0.010	6.542	0.010	6.584	0.010	6.627	0.010	6.669	0.010	6.711	0.010	6.754	0.010	6.796
0.010	6.839	0.010	6.881	0.010	6.924	0.010	6.966	0.010	7.009	0.010	7.051	0.010	7.094	0.010	7.136
0.010	7.179	0.010	7.221	0.010	7.264	0.010	7.306	0.010	7.349	0.010	7.391	0.010	7.434	0.010	7.476
0.010	7.519	0.010	7.561	0.010	7.604	0.010	7.646	0.010	7.689	0.010	7.731	0.010	7.774	0.010	7.816
0.010	7.858	0.010	7.901	0.010	7.943	0.010	7.986	0.010	8.028	0.010	8.071	0.010	8.113	0.010	8.156
0.010	8.198	0.010	8.241	0.010	8.283	0.010	8.326	0.010	8.368	0.010	8.411	0.010	8.453	0.010	8.496
0.010	8.538	0.010	8.581	0.010	8.623	0.010	8.666	0.010	8.708	0.010	8.751	0.010	8.793	0.010	8.836
0.010	8.878	0.010	8.920	0.010	8.963	0.010	9.005	0.010	9.048	0.010	9.090	0.010	9.133	0.010	9.175
0.010	9.218	0.010	9.260	0.010	9.303	0.010	9.345	0.010	9.388	0.010	9.430	0.010	9.473	0.010	9.515
0.010	9.558	0.010	9.600	0.010	9.643	0.010	9.685	0.010	9.728	0.010	9.770	0.010	9.813	0.010	9.855
0.010	9.898	0.010	9.940	0.010	9.983	0.010	10.025	0.010	10.067	0.010	10.110	0.010	10.152	0.010	10.195
0.010	10.237	0.010	10.280	0.010	10.322	0.010	10.365	0.010	10.407	0.010	10.450	0.010	10.492	0.010	10.535
0.010	10.577	0.010	10.620	0.010	10.662	0.010	10.705	0.010	10.747	0.010	10.790	0.010	10.832	0.010	10.875
0.010	10.917	0.010	10.960	0.010	11.002	0.010	11.045	0.010	11.087	0.010	11.129	0.010	11.172	0.010	11.214
0.010	11.257	0.010	11.299	0.010	11.342	0.010	11.384	0.010	11.427	0.010	11.469	0.010	11.512	0.010	11.554
0.010	11.597	0.010	11.639	0.010	11.682	0.010	11.724	0.010	11.767	0.010	11.809	0.010	11.852	0.010	11.894
0.010	11.937	0.010	11.979	0.010	12.022	0.010	12.064	0.010	12.107	0.010	12.149	0.010	12.192	0.010	12.234
0.010	12.276	0.010	12.319	0.010	12.361	0.010	12.404	0.010	12.446	0.010	12.489	0.010	12.531	0.010	12.574
0.010	12.616	0.010	12.659	0.010	12.701	0.010	12.744	0.010	12.786	0.010	12.829	0.010	12.871	0.010	12.914
0.010	12.956	0.010	12.999	0.010	13.041	0.010	13.084	0.010	13.126	0.010	13.169	0.010	13.211	0.010	13.254
0.010	13.296	0.010	13.338	0.010	13.381	0.010	13.423	0.010	13.466	0.010	13.508	0.010	13.551	0.010	13.593
0.010	13.636	0.010	13.678	0.010	13.721	0.010	13.763	0.010	13.806	0.010	13.848	0.010	13.891	0.010	13.933
0.010	13.976	0.010	14.018	0.010	14.061	0.010	14.103	0.010	14.146	0.010	14.188	0.010	14.231	0.010	14.273
0.010	14.316	0.010	14.358	0.010	14.401	0.010	14.443	0.010	14.485	0.010	14.528	0.010	14.570	0.010	14.613
0.010	14.655	0.010	14.698	0.010	14.740	0.010	14.783	0.010	14.825	0.010	14.868	0.010	14.910	0.010	14.953
0.010	14.995	0.010	15.038	0.010	15.080	0.010	15.123	0.010	15.165	0.010	15.208	0.010	15.250	0.010	15.293
0.010	15.335	0.010	15.378	0.010	15.420	0.010	15.463	0.010	15.505	0.010	15.548	0.010	15.590	0.010	15.632
0.010	15.675	0.010	15.717	0.010	15.760	0.010	15.802	0.010	15.845	0.010	15.887	0.010	15.930	0.010	15.972
0.010	16.015	0.010	16.057	0.010	16.100	0.010	16.142	0.010	16.185	0.010	16.227	0.010	16.270	0.010	16.312
0.010	16.355	0.010	16.397	0.010	16.440	0.010	16.482	0.010	16.525	0.010	16.567	0.010	16.610	0.010	16.652
0.010	16.694	0.010	16.737	0.010	16.779	0.010	16.822	0.010	16.864	0.010	16.907	0.010	16.949	0.010	16.992
0.010	17.034	0.010	17.077	0.010	17.119	0.010	17.162	0.010	17.204	0.010	17.247	0.010	17.289	0.010	17.332

0.010	17.374	0.010	17.417	0.010	17.459	0.010	17.502	0.010	17.544	0.010	17.587	0.010	17.629	0.010	17.672
0.010	17.714	0.010	17.757	0.010	17.799	0.010	17.841	0.010	17.884	0.010	17.926	0.010	17.969	0.010	18.011
0.010	18.054	0.010	18.096	0.010	18.139	0.010	18.181	0.010	18.224	0.010	18.266	0.010	18.309	0.010	18.351
0.010	18.394	0.010	18.436	0.010	18.479	0.010	18.521	0.010	18.564	0.010	18.606	0.010	18.649	0.010	18.691
0.010	18.734	0.010	18.776	0.010	18.819	0.010	18.861	0.010	18.903	0.010	18.946	0.010	18.988	0.010	19.031
0.010	19.073	0.010	19.116	0.010	19.158	0.010	19.201	0.010	19.243	0.010	19.286	0.010	19.328	0.010	19.371
0.010	19.413	0.010	19.456	0.010	19.498	0.010	19.541	0.010	19.583	0.010	19.626	0.010	19.668	0.010	19.711
0.010	19.753	0.010	19.796	0.010	19.838	0.010	19.881	0.010	19.923	0.010	19.966	0.010	20.008	0.010	20.050
0.010	20.093	0.010	20.135	0.010	20.178	0.010	20.220	0.010	20.263	0.010	20.305	0.010	20.348	0.010	20.390
0.010	20.433	0.010	20.475	0.010	20.518	0.010	20.560	0.010	20.603	0.010	20.645	0.010	20.688	0.010	20.730
0.010	20.773	0.010	20.815	0.010	20.858	0.010	20.900	0.010	20.943	0.010	20.985	0.010	21.028	0.010	21.070
0.010	21.113	0.010	21.155	0.010	21.197	0.010	21.240	0.010	21.282	0.010	21.325	0.010	21.367	0.010	21.410
0.010	21.452	0.010	21.495	0.010	21.537	0.010	21.580	0.010	21.622	0.010	21.665	0.010	21.707	0.010	21.750
0.010	21.792	0.010	21.835	0.010	21.877	0.010	21.920	0.010	21.962	0.010	22.005	0.010	22.047	0.010	22.090
0.010	22.132	0.010	22.175	0.010	22.217	0.010	22.259	0.010	22.302	0.010	22.344	0.010	22.387	0.010	22.429
0.010	22.472	0.010	22.514	0.010	22.557	0.010	22.599	0.010	22.642	0.010	22.684	0.010	22.727	0.010	22.769
0.020	22.812	0.020	22.854	0.020	22.897	0.020	22.939	0.020	22.982	0.020	23.024	0.020	23.067	0.020	23.109
0.020	23.152	0.020	23.194	0.020	23.237	0.020	23.279	0.020	23.322	0.020	23.364	0.020	23.406	0.020	23.449
0.020	23.491	0.020	23.534	0.020	23.576	0.020	23.619	0.020	23.661	0.020	23.704	0.020	23.746	0.020	23.789
0.020	23.831	0.020	23.874	0.020	23.916	0.020	23.959	0.020	24.001	0.020	24.044	0.020	24.086	0.020	24.129
0.020	24.171	0.020	24.214	0.020	24.256	0.020	24.299	0.020	24.341	0.020	24.384	0.020	24.426	0.020	24.468
0.020	24.511	0.020	24.553	0.020	24.596	0.020	24.638	0.020	24.681	0.020	24.723	0.020	24.766	0.020	24.808
0.020	24.851	0.020	24.893	0.020	24.936	0.020	24.978	0.020	25.021	0.020	25.063	0.020	25.106	0.020	25.148
0.020	25.191	0.020	25.233	0.020	25.276	0.020	25.318	0.020	25.361	0.020	25.403	0.020	25.446	0.020	25.488
0.020	25.531	0.020	25.573	0.020	25.615	0.020	25.658	0.020	25.700	0.020	25.743	0.020	25.785	0.020	25.828
0.020	25.870	0.020	25.913	0.020	25.955	0.020	25.998	0.020	26.040	0.020	26.083	0.020	26.125	0.020	26.168
0.020	26.210	0.020	26.253	0.020	26.295	0.020	26.338	0.020	26.380	0.020	26.423	0.020	26.465	0.020	26.508
0.020	26.550	0.020	26.593	0.020	26.635	0.020	26.677	0.020	26.720	0.020	26.762	0.020	26.805	0.020	26.847
0.020	26.890	0.020	26.932	0.020	26.975	0.020	27.017	0.020	27.060	0.020	27.102	0.020	27.145	0.020	27.187
0.020	27.230	0.020	27.272	0.020	27.315	0.020	27.357	0.020	27.400	0.020	27.442	0.020	27.485	0.020	27.527
0.020	27.570	0.020	27.612	0.020	27.655	0.020	27.697	0.020	27.740	0.020	27.782	0.020	27.824	0.020	27.867
0.020	27.909	0.020	27.952	0.020	27.994	0.020	28.037	0.020	28.079	0.020	28.122	0.020	28.164	0.020	28.207
0.020	28.249	0.020	28.292	0.020	28.334	0.020	28.377	0.020	28.419	0.020	28.462	0.020	28.504	0.020	28.547
0.020	28.589	0.020	28.632	0.020	28.674	0.020	28.717	0.020	28.759	0.020	28.802	0.020	28.844	0.020	28.887
0.020	28.929	0.020	28.971	0.020	29.014	0.020	29.056	0.020	29.099	0.020	29.141	0.020	29.184	0.020	29.226
0.020	29.269	0.020	29.311	0.020	29.354	0.020	29.396	0.020	29.439	0.020	29.481	0.020	29.524	0.020	29.566
0.020	29.609	0.020	29.651	0.020	29.694	0.020	29.736	0.020	29.779	0.020	29.821	0.020	29.864	0.020	29.906
0.020	29.949	0.020	29.991	0.020	30.033	0.020	30.076	0.020	30.118	0.020	30.161	0.020	30.203	0.020	30.246
0.020	30.288	0.020	30.331	0.020	30.373	0.020	30.416	0.020	30.458	0.020	30.501	0.020	30.543	0.020	30.586
0.020	30.628	0.020	30.671	0.020	30.713	0.020	30.756	0.020	30.798	0.020	30.841	0.020	30.883	0.020	30.925
0.020	30.968	0.020	31.011	0.020	31.053	0.020	31.096	0.020	31.138	0.020	31.180	0.020	31.223	0.020	31.265
0.020	31.308	0.020	31.350	0.020	31.393	0.020	31.435	0.020	31.478	0.020	31.520	0.020	31.563	0.020	31.605
0.020	31.648	0.020	31.690	0.020	31.733	0.020	31.775	0.020	31.818	0.020	31.860	0.020	31.903	0.020	31.945
0.020	31.988	0.020	32.030	0.020	32.073	0.020	32.115	0.020	32.158	0.020	32.200	0.020	32.242	0.020	32.285
0.020	32.327	0.020	32.370	0.020	32.412	0.020	32.455	0.020	32.497	0.020	32.540	0.020	32.582	0.020	32.625
0.020	32.667	0.020	32.710	0.020	32.752	0.020	32.795	0.020	32.837	0.020	32.880	0.020	32.922	0.020	32.965
0.020	33.007	0.020	33.050	0.020	33.092	0.020	33.135	0.020	33.177	0.020	33.220	0.020	33.262	0.020	33.305
0.020	33.347	0.020	33.389	0.020	33.432	0.020	33.474	0.020	33.517	0.020	33.559	0.020	33.602	0.020	33.644
0.020	33.687	0.020	33.729	0.020	33.772	0.020	33.814	0.020	33.857	0.020	33.899	0.020	33.942	0.020	33.984
0.020	34.027	0.020	34.069	0.020	34.112	0.020	34.154	0.020	34.197	0.020	34.239	0.020	34.282	0.020	34.324
0.020	34.367	0.020	34.409	0.020	34.452	0.020	34.494	0.020	34.536	0.020	34.579	0.020	34.621	0.020	34.664
0.020	34.706	0.020	34.749	0.020	34.791	0.020	34.834	0.020	34.876	0.020	34.919	0.020	34.961	0.020	35.004
0.020	35.046	0.020	35.089	0.020	35.131	0.020	35.174	0.020	35.216	0.020	35.259	0.020	35.301	0.020	35.344
0.020	35.386	0.020	35.429	0.020	35.471	0.020	35.514	0.020	35.556	0.020	35.598	0.020	35.641	0.020	35.683
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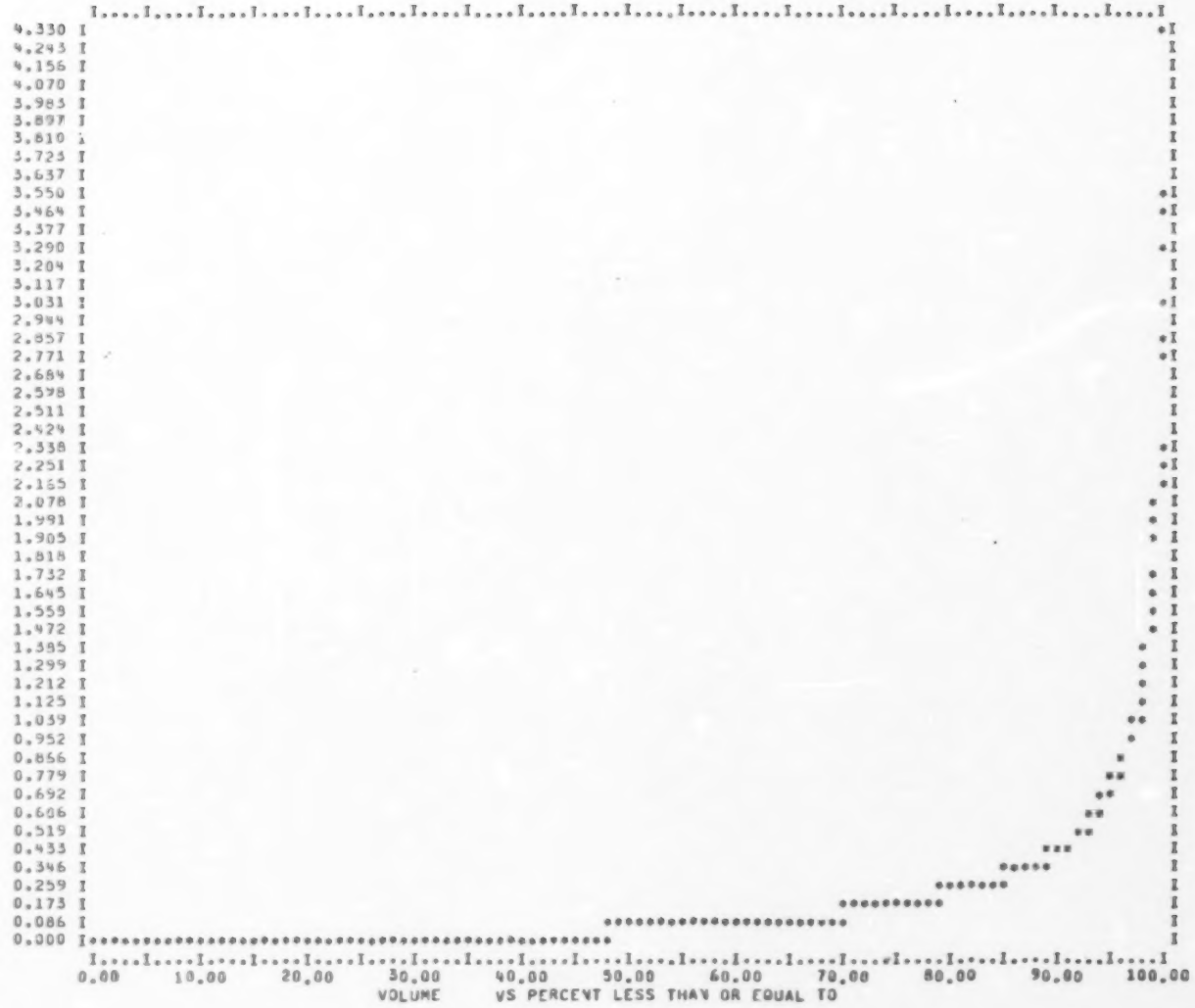
0.020	36.066	0.020	36.108	0.020	36.151	0.030	36.193	0.030	36.236	0.030	36.278	0.030	36.321	0.030	36.363
0.030	36.406	0.030	36.448	0.030	36.491	0.030	36.533	0.030	36.576	0.030	36.618	0.030	36.661	0.030	36.703

0.030	36.745	0.030	36.788	0.030	36.830	0.030	36.873	0.030	36.915	0.030	36.958	0.030	37.000	0.030	37.043
0.030	37.085	0.030	37.128	0.030	37.170	0.030	37.213	0.030	37.255	0.030	37.298	0.030	37.340	0.030	37.383
0.030	37.425	0.030	37.468	0.030	37.510	0.030	37.553	0.030	37.595	0.030	37.638	0.030	37.680	0.030	37.723
0.030	37.765	0.030	37.807	0.030	37.850	0.030	37.892	0.030	37.935	0.030	37.977	0.030	38.020	0.030	38.062
0.030	38.105	0.030	38.147	0.030	38.190	0.030	38.232	0.030	38.275	0.030	38.317	0.030	38.360	0.030	38.402
0.030	38.445	0.030	38.487	0.030	38.530	0.030	38.572	0.030	38.615	0.030	38.657	0.030	38.700	0.030	38.742
0.030	38.785	0.030	38.827	0.030	38.870	0.030	38.912	0.030	38.954	0.030	38.997	0.030	39.039	0.030	39.082
0.030	39.124	0.030	39.167	0.030	39.209	0.030	39.252	0.030	39.294	0.030	39.337	0.030	39.379	0.030	39.422
0.030	39.464	0.030	39.507	0.030	39.549	0.030	39.592	0.030	39.634	0.030	39.677	0.030	39.719	0.030	39.762
0.030	39.804	0.030	39.847	0.030	39.889	0.030	39.932	0.030	39.974	0.030	40.016	0.030	40.059	0.030	40.101
0.030	40.144	0.030	40.186	0.030	40.229	0.030	40.271	0.030	40.314	0.030	40.356	0.030	40.399	0.030	40.441
0.030	40.484	0.030	40.526	0.030	40.569	0.030	40.611	0.030	40.654	0.030	40.696	0.030	40.739	0.030	40.781
0.030	40.824	0.030	40.866	0.030	40.909	0.030	40.951	0.030	40.994	0.030	41.036	0.030	41.079	0.030	41.121
0.030	41.163	0.030	41.206	0.030	41.248	0.030	41.291	0.030	41.333	0.030	41.376	0.030	41.418	0.030	41.461
0.030	41.503	0.030	41.546	0.030	41.588	0.030	41.631	0.030	41.673	0.030	41.716	0.030	41.758	0.030	41.801
0.030	41.843	0.030	41.886	0.030	41.928	0.030	41.971	0.030	42.013	0.030	42.056	0.030	42.098	0.030	42.141
0.030	42.183	0.030	42.226	0.030	42.268	0.030	42.310	0.030	42.353	0.030	42.395	0.030	42.438	0.030	42.480
0.030	42.523	0.030	42.565	0.030	42.608	0.030	42.650	0.030	42.693	0.030	42.735	0.030	42.778	0.030	42.820
0.030	42.863	0.030	42.905	0.030	42.948	0.030	42.990	0.030	43.033	0.030	43.075	0.030	43.118	0.030	43.160
0.030	43.203	0.030	43.245	0.030	43.288	0.030	43.330	0.030	43.372	0.030	43.415	0.030	43.457	0.040	43.500
0.040	43.542	0.040	43.585	0.040	43.627	0.040	43.670	0.040	43.712	0.040	43.755	0.040	43.797	0.040	43.840
0.040	43.882	0.040	43.925	0.040	43.967	0.040	44.010	0.040	44.052	0.040	44.095	0.040	44.137	0.040	44.180
0.040	44.222	0.040	44.265	0.040	44.307	0.040	44.350	0.040	44.392	0.040	44.435	0.040	44.477	0.040	44.519
0.040	44.562	0.040	44.604	0.040	44.647	0.040	44.689	0.040	44.732	0.040	44.774	0.040	44.817	0.040	44.859
0.040	44.902	0.040	44.944	0.040	44.987	0.040	45.029	0.040	45.072	0.040	45.114	0.040	45.157	0.040	45.199
0.040	45.242	0.040	45.284	0.040	45.327	0.040	45.369	0.040	45.412	0.040	45.454	0.040	45.497	0.040	45.539
0.040	45.581	0.040	45.624	0.040	45.666	0.040	45.709	0.040	45.751	0.040	45.794	0.040	45.836	0.040	45.879
0.040	45.921	0.040	45.964	0.040	46.006	0.040	46.049	0.040	46.091	0.040	46.134	0.040	46.176	0.040	46.219
0.040	46.261	0.040	46.304	0.040	46.346	0.040	46.389	0.040	46.431	0.040	46.474	0.040	46.516	0.040	46.559
0.040	46.601	0.040	46.644	0.040	46.686	0.040	46.728	0.040	46.771	0.040	46.813	0.040	46.856	0.040	46.898
0.040	46.941	0.040	46.983	0.040	47.026	0.040	47.068	0.040	47.111	0.040	47.153	0.040	47.196	0.040	47.238
0.040	47.281	0.040	47.323	0.040	47.366	0.040	47.408	0.040	47.451	0.040	47.493	0.040	47.536	0.040	47.578
0.040	47.621	0.040	47.663	0.040	47.706	0.040	47.748	0.040	47.791	0.040	47.833	0.040	47.875	0.040	47.918
0.040	47.960	0.040	48.003	0.040	48.045	0.040	48.088	0.040	48.130	0.040	48.173	0.040	48.215	0.040	48.258
0.040	48.300	0.040	48.343	0.040	48.385	0.050	48.428	0.050	48.470	0.050	48.513	0.050	48.555	0.050	48.599
0.050	48.640	0.050	48.683	0.050	48.725	0.050	48.768	0.050	48.810	0.050	48.853	0.050	48.895	0.050	48.937
0.050	48.980	0.050	49.022	0.050	49.065	0.050	49.107	0.050	49.150	0.050	49.192	0.050	49.235	0.050	49.277
0.050	49.320	0.050	49.362	0.050	49.405	0.050	49.447	0.050	49.490	0.050	49.532	0.050	49.575	0.050	49.617
0.050	49.660	0.050	49.702	0.050	49.745	0.050	49.787	0.050	49.830	0.050	49.872	0.050	49.915	0.050	49.957
0.050	50.000	0.050	50.042	0.050	50.084	0.050	50.127	0.050	50.169	0.050	50.212	0.050	50.254	0.050	50.297
0.050	50.339	0.050	50.382	0.050	50.424	0.050	50.467	0.050	50.509	0.050	50.552	0.050	50.594	0.050	50.637
0.050	50.679	0.050	50.722	0.050	50.764	0.050	50.807	0.050	50.849	0.050	50.892	0.050	50.934	0.050	50.977
0.050	51.019	0.050	51.062	0.050	51.104	0.050	51.146	0.050	51.189	0.050	51.231	0.050	51.274	0.050	51.316
0.050	51.359	0.050	51.401	0.050	51.444	0.050	51.486	0.050	51.529	0.050	51.571	0.050	51.614	0.050	51.656
0.050	51.699	0.050	51.741	0.050	51.784	0.050	51.826	0.050	51.869	0.050	51.911	0.050	51.954	0.050	51.995
0.050	52.039	0.050	52.081	0.050	52.124	0.050	52.166	0.060	52.209	0.060	52.251	0.060	52.293	0.060	52.336
0.060	52.378	0.060	52.421	0.060	52.463	0.060	52.506	0.060	52.548	0.060	52.591	0.060	52.633	0.060	52.676
0.060	52.718	0.060	52.761	0.060	52.803	0.060	52.846	0.060	52.888	0.060	52.931	0.060	52.973	0.060	53.016
0.060	53.058	0.060	53.101	0.060	53.143	0.060	53.186	0.060	53.228	0.060	53.271	0.060	53.313	0.060	53.355
0.060	53.398	0.060	53.440	0.060	53.483	0.060	53.525	0.060	53.568	0.060	53.610	0.060	53.653	0.060	53.695
0.060	53.738	0.060	53.780	0.060	53.823	0.060	53.865	0.060	53.908	0.060	53.950	0.060	53.993	0.060	54.035
0.060	54.078	0.060	54.120	0.060	54.163	0.060	54.205	0.060	54.248	0.060	54.290	0.060	54.333	0.060	54.375
0.060	54.418	0.060	54.460	0.060	54.502	0.060	54.545	0.060	54.587	0.060	54.630	0.060	54.672	0.060	54.715
0.060	54.757	0.060	54.800	0.060	54.842	0.060	54.885	0.060	54.927	0.060	54.970	0.060	55.012	0.060	55.055
0.060	55.097	0.060	55.140	0.060	55.182	0.060	55.225	0.060	55.267	0.060	55.310	0.060	55.352	0.060	55.395
0.060	55.437	0.060	55.480	0.060	55.522	0.060	55.565	0.060	55.607	0.060	55.649	0.060	55.692	0.060	55.734
0.060	55.777	0.060	55.819	0.060	55.862	0.060	55.904	0.060	55.947	0.060	55.989	0.060	56.032	0.060	56.074

0.060	56.117	0.060	56.159	0.060	56.202	0.060	56.244	0.060	56.287	0.060	56.329	0.060	56.372	0.060	56.414
0.060	56.457	0.060	56.499	0.060	56.542	0.070	56.584	0.070	56.627	0.070	56.669	0.070	56.711	0.070	56.754
0.070	56.796	0.070	56.839	0.070	56.881	0.070	56.924	0.070	56.966	0.070	57.009	0.070	57.051	0.070	57.094
0.070	57.136	0.070	57.179	0.070	57.221	0.070	57.264	0.070	57.306	0.070	57.349	0.070	57.391	0.070	57.434
0.070	57.476	0.070	57.519	0.070	57.561	0.070	57.604	0.070	57.646	0.070	57.689	0.070	57.731	0.070	57.774
0.070	57.816	0.070	57.858	0.070	57.901	0.070	57.943	0.070	57.986	0.070	58.028	0.070	58.071	0.070	58.113
0.070	58.156	0.070	58.198	0.070	58.241	0.070	58.283	0.070	58.326	0.070	58.368	0.070	58.411	0.070	58.453
0.070	58.496	0.070	58.538	0.070	58.581	0.070	58.623	0.070	58.666	0.070	58.708	0.070	58.751	0.070	58.793
0.070	58.836	0.070	58.878	0.070	58.920	0.070	58.963	0.070	59.005	0.070	59.048	0.070	59.090	0.070	59.133
0.070	59.175	0.070	59.218	0.070	59.260	0.070	59.303	0.070	59.345	0.070	59.388	0.070	59.430	0.070	59.473
0.070	59.515	0.070	59.558	0.070	59.600	0.070	59.643	0.070	59.685	0.080	59.728	0.080	59.770	0.080	59.813
0.080	59.855	0.080	59.898	0.080	59.940	0.080	59.983	0.080	60.025	0.080	60.067	0.080	60.110	0.080	60.152
0.080	60.195	0.080	60.237	0.080	60.280	0.080	60.322	0.080	60.365	0.080	60.407	0.080	60.450	0.080	60.492
0.080	60.535	0.080	60.577	0.080	60.620	0.080	60.662	0.080	60.705	0.080	60.747	0.080	60.790	0.080	60.832
0.080	60.875	0.080	60.917	0.080	60.960	0.080	61.002	0.080	61.045	0.080	61.087	0.080	61.129	0.080	61.172
0.080	61.214	0.080	61.257	0.080	61.299	0.080	61.342	0.080	61.384	0.080	61.427	0.080	61.469	0.080	61.512
0.080	61.554	0.080	61.597	0.080	61.639	0.080	61.682	0.080	61.724	0.080	61.767	0.080	61.809	0.080	61.852
0.080	61.894	0.080	61.937	0.090	61.979	0.090	62.022	0.090	62.064	0.090	62.107	0.090	62.149	0.090	62.192
0.090	62.234	0.090	62.276	0.090	62.319	0.090	62.361	0.090	62.404	0.090	62.446	0.090	62.489	0.090	62.531
0.090	62.574	0.090	62.616	0.090	62.659	0.090	62.701	0.090	62.744	0.090	62.786	0.090	62.829	0.090	62.871
0.090	62.914	0.090	62.956	0.090	62.999	0.090	63.041	0.090	63.084	0.090	63.126	0.090	63.169	0.090	63.211
0.090	63.254	0.090	63.296	0.090	63.339	0.090	63.381	0.090	63.423	0.090	63.466	0.090	63.508	0.090	63.551
0.090	63.593	0.090	63.636	0.090	63.678	0.090	63.721	0.090	63.763	0.090	63.806	0.090	63.848	0.090	63.891
0.090	63.933	0.090	63.976	0.090	64.018	0.090	64.061	0.090	64.103	0.090	64.146	0.090	64.188	0.090	64.231
0.090	64.273	0.090	64.316	0.090	64.358	0.100	64.401	0.100	64.443	0.100	64.485	0.100	64.528	0.100	64.570
0.100	64.613	0.100	64.655	0.100	64.698	0.100	64.740	0.100	64.783	0.100	64.825	0.100	64.868	0.100	64.910
0.100	64.953	0.100	64.995	0.100	65.038	0.100	65.080	0.100	65.123	0.100	65.165	0.100	65.208	0.100	65.250
0.100	65.293	0.100	65.335	0.100	65.378	0.100	65.420	0.100	65.463	0.100	65.505	0.100	65.548	0.100	65.590
0.100	65.632	0.100	65.675	0.100	65.717	0.100	65.760	0.100	65.802	0.100	65.845	0.100	65.887	0.100	65.930
0.100	65.972	0.100	66.015	0.100	66.057	0.100	66.100	0.100	66.142	0.100	66.185	0.100	66.227	0.100	66.270
0.100	66.312	0.100	66.355	0.100	66.397	0.100	66.441	0.100	66.482	0.100	66.525	0.110	66.567	0.110	66.610
0.110	66.652	0.110	66.694	0.110	66.737	0.110	66.779	0.110	66.822	0.110	66.864	0.110	66.907	0.110	66.949
0.110	66.992	0.110	67.034	0.110	67.077	0.110	67.119	0.110	67.162	0.110	67.204	0.110	67.247	0.110	67.289
0.110	67.332	0.110	67.374	0.110	67.417	0.110	67.459	0.110	67.502	0.110	67.544	0.110	67.587	0.110	67.629
0.110	67.672	0.110	67.714	0.110	67.757	0.110	67.799	0.110	67.841	0.110	67.884	0.110	67.926	0.110	67.969
0.110	68.011	0.110	68.054	0.110	68.096	0.110	68.139	0.110	68.181	0.110	68.224	0.110	68.266	0.120	68.309
0.120	68.351	0.120	68.394	0.120	68.436	0.120	68.479	0.120	68.521	0.120	68.564	0.120	68.606	0.120	68.649
0.120	68.691	0.120	68.734	0.120	68.776	0.120	68.819	0.120	68.861	0.120	68.904	0.120	68.946	0.120	68.989
0.120	69.031	0.120	69.073	0.120	69.116	0.120	69.158	0.120	69.201	0.120	69.243	0.120	69.286	0.120	69.328
0.120	69.371	0.120	69.413	0.120	69.456	0.120	69.498	0.120	69.541	0.120	69.583	0.120	69.626	0.120	69.668
0.120	69.711	0.120	69.753	0.120	69.796	0.120	69.838	0.120	69.881	0.120	69.923	0.120	69.966	0.120	70.008
0.120	70.050	0.130	70.093	0.130	70.135	0.130	70.178	0.130	70.220	0.130	70.263	0.130	70.305	0.130	70.348
0.130	70.390	0.130	70.433	0.130	70.475	0.130	70.518	0.130	70.560	0.130	70.603	0.130	70.645	0.130	70.688
0.130	70.730	0.130	70.773	0.130	70.815	0.130	70.858	0.130	70.900	0.130	70.943	0.130	70.985	0.130	71.028
0.130	71.070	0.130	71.113	0.130	71.155	0.130	71.197	0.130	71.240	0.130	71.282	0.130	71.325	0.130	71.367
0.130	71.410	0.130	71.452	0.130	71.495	0.130	71.537	0.130	71.580	0.130	71.622	0.130	71.665	0.140	71.707
0.140	71.750	0.140	71.792	0.140	71.835	0.140	71.877	0.140	71.920	0.140	71.962	0.140	72.005	0.140	72.047
0.140	72.090	0.140	72.132	0.140	72.175	0.140	72.217	0.140	72.259	0.140	72.302	0.140	72.344	0.140	72.387
0.140	72.429	0.140	72.472	0.140	72.514	0.140	72.557	0.140	72.599	0.140	72.642	0.140	72.684	0.140	72.727
0.140	72.769	0.140	72.812	0.140	72.854	0.140	72.897	0.150	72.939	0.150	72.982	0.150	73.024	0.150	73.067
0.150	73.109	0.150	73.152	0.150	73.194	0.150	73.237	0.150	73.279	0.150	73.322	0.150	73.364	0.150	73.406
0.150	73.449	0.150	73.491	0.150	73.534	0.150	73.576	0.150	73.619	0.150	73.661	0.150	73.704	0.150	73.746
0.150	73.789	0.150	73.831	0.150	73.874	0.160	73.916	0.160	73.959	0.160	74.001	0.160	74.044	0.160	74.086
0.160	74.129	0.160	74.171	0.160	74.214	0.160	74.256	0.160	74.299	0.160	74.341	0.160	74.384	0.160	74.426
0.160	74.468	0.160	74.511	0.160	74.553	0.160	74.596	0.170	74.638	0.170	74.681	0.170	74.723	0.170	74.765
0.170	74.808	0.170	74.851	0.170	74.893	0.170	74.936	0.170	74.978	0.170	75.021	0.170	75.063	0.170	75.106
0.170	75.148	0.170	75.191	0.170	75.233	0.170	75.276	0.170	75.318	0.170	75.361	0.170	75.403	0.170	75.446

0.180	75.488	0.180	75.531	0.180	75.573	0.180	75.615	0.180	75.658	0.180	75.700	0.180	75.743	0.180	75.785
0.180	75.829	0.180	75.870	0.180	75.913	0.180	75.955	0.180	75.998	0.180	76.040	0.180	76.083	0.180	76.125
0.180	76.168	0.180	76.210	0.180	76.253	0.180	76.295	0.180	76.338	0.180	76.380	0.180	76.423	0.180	76.465
0.180	76.508	0.180	76.550	0.180	76.593	0.180	76.635	0.180	76.678	0.180	76.720	0.180	76.762	0.180	76.805
0.180	76.847	0.180	76.890	0.180	76.932	0.180	76.975	0.190	77.017	0.190	77.060	0.190	77.102	0.190	77.145
0.190	77.187	0.190	77.230	0.190	77.272	0.190	77.315	0.190	77.357	0.190	77.400	0.190	77.442	0.190	77.485
0.190	77.527	0.190	77.570	0.190	77.612	0.190	77.655	0.190	77.697	0.190	77.740	0.190	77.782	0.190	77.825
0.190	77.867	0.200	77.909	0.200	77.952	0.200	77.994	0.200	78.037	0.200	78.079	0.200	78.122	0.200	78.164
0.200	78.207	0.200	78.249	0.200	78.292	0.200	78.334	0.200	78.377	0.200	78.419	0.200	78.462	0.200	78.504
0.200	78.547	0.210	78.589	0.210	78.632	0.210	78.674	0.210	78.717	0.210	78.759	0.210	78.802	0.210	78.844
0.210	78.887	0.210	78.929	0.210	78.971	0.210	79.014	0.210	79.056	0.210	79.099	0.210	79.141	0.210	79.184
0.210	79.226	0.210	79.269	0.210	79.311	0.210	79.354	0.210	79.396	0.220	79.439	0.220	79.481	0.220	79.524
0.220	79.566	0.220	79.609	0.220	79.651	0.220	79.694	0.220	79.736	0.220	79.779	0.220	79.821	0.220	79.864
0.220	79.906	0.220	79.949	0.220	79.991	0.220	80.033	0.220	80.076	0.220	80.118	0.220	80.161	0.220	80.203
0.230	80.246	0.230	80.288	0.230	80.331	0.230	80.373	0.230	80.416	0.230	80.458	0.230	80.501	0.230	80.543
0.230	80.586	0.230	80.628	0.240	80.671	0.240	80.713	0.240	80.756	0.240	80.798	0.240	80.841	0.240	80.883
0.240	80.926	0.240	80.968	0.240	81.011	0.240	81.053	0.240	81.096	0.240	81.138	0.240	81.180	0.240	81.223
0.240	81.265	0.240	81.308	0.240	81.350	0.240	81.393	0.240	81.435	0.250	81.478	0.250	81.520	0.250	81.563
0.250	81.605	0.250	81.648	0.250	81.690	0.250	81.733	0.250	81.775	0.250	81.818	0.250	81.860	0.250	81.903
0.260	81.945	0.260	81.988	0.260	82.030	0.260	82.073	0.260	82.115	0.260	82.158	0.260	82.200	0.260	82.242
0.260	82.285	0.260	82.327	0.260	82.370	0.260	82.412	0.260	82.455	0.260	82.497	0.270	82.540	0.270	82.582
0.270	82.625	0.270	82.667	0.270	82.710	0.270	82.752	0.270	82.795	0.270	82.837	0.270	82.880	0.270	82.922
0.270	82.965	0.270	83.007	0.270	83.050	0.270	83.092	0.270	83.135	0.270	83.177	0.270	83.220	0.270	83.262
0.270	83.305	0.270	83.347	0.270	83.389	0.280	83.432	0.280	83.474	0.280	83.517	0.280	83.559	0.280	83.602
0.280	83.644	0.280	83.687	0.280	83.729	0.280	83.772	0.280	83.814	0.280	83.857	0.280	83.899	0.280	83.942
0.280	83.984	0.280	84.027	0.280	84.069	0.280	84.112	0.280	84.154	0.280	84.197	0.280	84.239	0.280	84.282
0.290	84.324	0.290	84.367	0.290	84.409	0.290	84.452	0.290	84.494	0.290	84.536	0.290	84.579	0.290	84.621
0.300	84.664	0.300	84.706	0.300	84.749	0.300	84.791	0.300	84.834	0.300	84.876	0.300	84.919	0.300	84.961
0.300	85.004	0.300	85.046	0.310	85.089	0.310	85.131	0.310	85.174	0.310	85.216	0.310	85.259	0.310	85.301
0.310	85.344	0.310	85.386	0.310	85.429	0.310	85.471	0.310	85.514	0.310	85.556	0.320	85.598	0.320	85.641
0.320	85.683	0.320	85.726	0.320	85.769	0.320	85.811	0.320	85.853	0.320	85.896	0.320	85.938	0.320	85.981
0.320	86.023	0.330	86.066	0.330	86.108	0.330	86.151	0.330	86.193	0.330	86.236	0.330	86.278	0.330	86.321
0.330	86.363	0.330	86.406	0.330	86.448	0.330	86.491	0.330	86.533	0.330	86.576	0.330	86.618	0.340	86.661
0.340	86.703	0.340	86.745	0.340	86.788	0.340	86.830	0.340	86.873	0.350	86.915	0.350	86.958	0.350	87.000
0.350	87.043	0.350	87.085	0.350	87.128	0.350	87.170	0.350	87.213	0.350	87.255	0.350	87.298	0.360	87.340
0.360	87.383	0.360	87.425	0.360	87.468	0.360	87.510	0.360	87.553	0.360	87.595	0.360	87.638	0.360	87.680
0.360	87.723	0.360	87.765	0.360	87.807	0.360	87.850	0.360	87.892	0.370	87.935	0.370	87.977	0.370	88.020
0.370	88.062	0.370	88.105	0.370	88.147	0.370	88.190	0.370	88.232	0.370	88.275	0.370	88.317	0.370	88.360
0.380	88.402	0.380	88.445	0.380	88.487	0.380	88.530	0.380	88.572	0.380	88.615	0.380	88.657	0.380	88.700
0.380	88.742	0.380	88.785	0.380	88.827	0.380	88.870	0.380	88.912	0.380	88.954	0.390	88.997	0.390	89.039
0.390	89.082	0.390	89.124	0.390	89.167	0.390	89.209	0.390	89.252	0.400	89.294	0.400	89.337	0.400	89.379
0.400	89.422	0.400	89.464	0.400	89.507	0.400	89.549	0.400	89.592	0.400	89.634	0.400	89.677	0.400	89.719
0.400	89.762	0.400	89.804	0.410	89.847	0.410	89.889	0.410	89.932	0.410	89.974	0.410	90.016	0.420	90.059
0.420	90.101	0.420	90.144	0.420	90.186	0.420	90.229	0.420	90.271	0.420	90.314	0.420	90.356	0.430	90.399
0.430	90.441	0.430	90.484	0.430	90.526	0.430	90.569	0.440	90.611	0.450	90.654	0.450	90.696	0.450	90.739
0.450	90.781	0.450	90.824	0.450	90.866	0.460	90.909	0.460	90.951	0.460	90.994	0.460	91.036	0.460	91.079
0.460	91.121	0.470	91.163	0.470	91.206	0.470	91.248	0.470	91.291	0.470	91.333	0.470	91.376	0.470	91.418
0.470	91.461	0.480	91.503	0.480	91.546	0.480	91.588	0.480	91.631	0.480	91.673	0.480	91.716	0.480	91.758
0.480	91.801	0.490	91.843	0.490	91.886	0.500	91.928	0.500	91.971	0.500	92.013	0.510	92.056	0.510	92.098
0.520	92.141	0.520	92.183	0.530	92.226	0.530	92.268	0.530	92.310	0.530	92.353	0.530	92.395	0.530	92.438
0.540	92.480	0.540	92.523	0.540	92.565	0.540	92.608	0.540	92.650	0.540	92.693	0.540	92.735	0.540	92.778
0.550	92.820	0.550	92.863	0.550	92.905	0.550	92.948	0.550	92.990	0.560	93.033	0.560	93.075	0.560	93.118
0.570	93.160	0.570	93.203	0.570	93.245	0.570	93.288	0.580	93.330	0.590	93.372	0.600	93.415	0.600	93.457
0.600	93.500	0.600	93.542	0.610	93.585	0.610	93.627	0.620	93.670	0.620	93.712	0.620	93.755	0.620	93.797
0.630	93.840	0.640	93.882	0.640	93.925	0.640	93.967	0.640	94.010	0.640	94.052	0.650	94.095	0.650	94.137
0.650	94.180	0.650	94.222	0.650	94.265	0.650	94.307	0.660	94.350	0.660	94.392	0.660	94.435	0.670	94.477
0.670	94.519	0.670	94.562	0.670	94.604	0.680	94.647	0.680	94.689	0.680	94.732	0.690	94.774	0.690	94.817

0.690	94.859	0.690	94.902	0.700	94.944	0.700	94.987	0.700	95.029	0.710	95.072	0.710	95.114	0.710	95.157
0.720	95.199	0.720	95.242	0.720	95.284	0.720	95.327	0.730	95.369	0.740	95.412	0.750	95.454	0.750	95.497
0.760	95.539	0.760	95.582	0.760	95.624	0.790	95.666	0.790	95.709	0.790	95.751	0.800	95.794	0.800	95.836
0.800	95.879	0.800	95.921	0.820	95.964	0.820	96.006	0.820	96.049	0.820	96.091	0.830	96.134	0.830	96.176
0.850	96.219	0.850	96.261	0.870	96.304	0.870	96.346	0.870	96.389	0.880	96.431	0.890	96.474	0.910	96.516
0.920	96.559	0.920	96.601	0.930	96.644	0.940	96.686	0.950	96.728	0.950	96.771	0.970	96.813	0.970	96.856
0.980	96.898	0.990	96.941	0.990	96.983	0.990	97.026	1.000	97.068	1.010	97.111	1.010	97.153	1.030	97.196
1.040	97.238	1.050	97.281	1.050	97.323	1.060	97.366	1.070	97.408	1.070	97.451	1.080	97.493	1.080	97.536
1.090	97.578	1.100	97.621	1.110	97.663	1.110	97.706	1.150	97.748	1.160	97.791	1.160	97.833	1.200	97.875
1.200	97.918	1.210	97.960	1.210	98.003	1.240	98.045	1.250	98.088	1.260	98.130	1.280	98.173	1.300	98.215
1.310	98.258	1.350	98.300	1.350	98.343	1.370	98.385	1.380	98.428	1.390	98.470	1.430	98.513	1.430	98.555
1.460	98.598	1.460	98.640	1.490	98.683	1.500	98.725	1.510	98.768	1.510	98.810	1.570	98.853	1.600	98.895
1.610	98.937	1.620	98.980	1.640	99.022	1.660	99.065	1.700	99.107	1.700	99.150	1.710	99.192	1.760	99.235
1.870	99.277	1.950	99.320	1.950	99.362	2.050	99.405	2.060	99.447	2.120	99.490	2.130	99.532	2.150	99.575
2.220	99.617	2.380	99.660	2.770	99.702	2.820	99.745	3.040	99.787	3.250	99.830	3.290	99.872	3.430	99.915
3.550	99.957	4.330	100.000												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60.00
70.00
80.00
90.00
100.00
VOLUME VS PERCENT LESS THAN OR EQUAL TO

RETURN PERIOD (114 YEARS) FOR VOLUME

VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD
4.330	26.000	3.550	13.000	3.430	8.666	3.290	6.500	3.250	5.200	3.040	4.333	2.820	3.714	2.770	3.250
2.380	2.444	2.220	2.600	2.150	2.363	2.130	2.166	2.120	2.000	2.060	1.857	2.050	1.733	1.960	1.625
1.950	1.529	1.870	1.444	1.760	1.368	1.740	1.300	1.700	1.238	1.700	1.181	1.660	1.130	1.640	1.083
1.620	1.040	1.610	1.000	1.600	0.962	1.570	0.928	1.510	0.896	1.510	0.866	1.500	0.838	1.490	0.812
1.460	0.787	1.460	0.754	1.430	0.742	1.430	0.722	1.390	0.702	1.390	0.684	1.370	0.666	1.360	0.650
1.350	0.634	1.310	0.619	1.300	0.604	1.280	0.590	1.260	0.577	1.250	0.565	1.240	0.553	1.210	0.541
1.210	0.530	1.200	0.520	1.200	0.509	1.160	0.500	1.160	0.490	1.150	0.481	1.110	0.472	1.110	0.464
1.100	0.456	1.090	0.448	1.080	0.440	1.080	0.433	1.070	0.426	1.070	0.419	1.060	0.412	1.050	0.406
1.050	0.400	1.040	0.393	1.030	0.388	1.010	0.382	1.010	0.376	1.000	0.371	0.990	0.366	0.990	0.361
0.930	0.356	0.980	0.351	0.970	0.346	0.970	0.342	0.950	0.337	0.950	0.333	0.940	0.329	0.930	0.325
0.920	0.320	0.920	0.317	0.910	0.313	0.890	0.309	0.880	0.305	0.870	0.302	0.870	0.298	0.870	0.295
0.850	0.292	0.850	0.288	0.830	0.285	0.830	0.282	0.820	0.279	0.820	0.276	0.820	0.273	0.820	0.270
0.800	0.268	0.800	0.265	0.800	0.262	0.800	0.260	0.790	0.257	0.790	0.254	0.780	0.252	0.760	0.250
0.760	0.247	0.760	0.245	0.750	0.242	0.750	0.240	0.740	0.238	0.730	0.236	0.720	0.234	0.720	0.232
0.720	0.230	0.720	0.228	0.710	0.226	0.710	0.224	0.710	0.222	0.700	0.220	0.700	0.218	0.700	0.216
0.690	0.214	0.690	0.213	0.690	0.211	0.680	0.209	0.680	0.208	0.680	0.206	0.680	0.204	0.670	0.203
0.670	0.201	0.670	0.200	0.670	0.198	0.660	0.196	0.660	0.195	0.660	0.194	0.650	0.192	0.650	0.191
0.650	0.189	0.650	0.188	0.650	0.187	0.650	0.185	0.640	0.184	0.640	0.183	0.640	0.181	0.640	0.180
0.640	0.179	0.630	0.178	0.620	0.176	0.620	0.175	0.620	0.174	0.620	0.173	0.610	0.172	0.610	0.171
0.600	0.169	0.600	0.168	0.600	0.167	0.600	0.166	0.590	0.165	0.580	0.164	0.570	0.163	0.570	0.162
0.570	0.161	0.570	0.160	0.560	0.159	0.560	0.158	0.560	0.157	0.550	0.156	0.550	0.155	0.550	0.154
0.550	0.153	0.550	0.152	0.540	0.152	0.540	0.151	0.540	0.150	0.540	0.149	0.540	0.148	0.540	0.147
0.540	0.146	0.540	0.146	0.530	0.145	0.530	0.144	0.530	0.143	0.530	0.142	0.530	0.142	0.530	0.141
0.520	0.140	0.520	0.139	0.510	0.139	0.510	0.138	0.500	0.137	0.500	0.136	0.500	0.136	0.490	0.135
0.490	0.134	0.480	0.134	0.480	0.133	0.480	0.132	0.480	0.131	0.480	0.131	0.480	0.130	0.480	0.130
0.480	0.129	0.470	0.128	0.470	0.128	0.470	0.127	0.470	0.126	0.470	0.126	0.470	0.125	0.470	0.125
0.470	0.124	0.460	0.123	0.460	0.123	0.460	0.122	0.460	0.122	0.460	0.121	0.460	0.120	0.450	0.120
0.450	0.119	0.450	0.119	0.450	0.118	0.450	0.118	0.450	0.117	0.440	0.117	0.430	0.116	0.430	0.116
0.430	0.115	0.430	0.115	0.430	0.114	0.420	0.114	0.420	0.113	0.420	0.113	0.420	0.112	0.420	0.112
0.420	0.111	0.420	0.111	0.420	0.110	0.410	0.110	0.410	0.109	0.410	0.109	0.410	0.108	0.410	0.108
0.400	0.107	0.400	0.107	0.400	0.106	0.400	0.106	0.400	0.106	0.400	0.105	0.400	0.105	0.400	0.104
0.400	0.104	0.400	0.104	0.400	0.103	0.400	0.103	0.400	0.102	0.390	0.102	0.390	0.101	0.390	0.101
0.390	0.101	0.390	0.100	0.390	0.100	0.390	0.100	0.380	0.099	0.380	0.099	0.380	0.098	0.380	0.098
0.380	0.098	0.380	0.097	0.380	0.097	0.380	0.097	0.380	0.096	0.380	0.096	0.380	0.095	0.380	0.095
0.380	0.095	0.380	0.094	0.370	0.094	0.370	0.094	0.370	0.093	0.370	0.093	0.370	0.093	0.370	0.092
0.370	0.092	0.370	0.092	0.370	0.091	0.370	0.091	0.370	0.091	0.360	0.090	0.360	0.090	0.360	0.090
0.360	0.089	0.360	0.089	0.360	0.089	0.360	0.089	0.360	0.088	0.360	0.088	0.360	0.088	0.360	0.087
0.360	0.087	0.360	0.087	0.360	0.086	0.350	0.086	0.350	0.086	0.350	0.086	0.350	0.085	0.350	0.085
0.350	0.085	0.350	0.084	0.350	0.084	0.350	0.084	0.350	0.084	0.340	0.083	0.340	0.083	0.340	0.083
0.340	0.083	0.340	0.082	0.340	0.082	0.330	0.082	0.330	0.082	0.330	0.081	0.330	0.081	0.330	0.081
0.330	0.080	0.330	0.080	0.330	0.080	0.330	0.080	0.330	0.080	0.330	0.079	0.330	0.079	0.330	0.079
0.330	0.079	0.320	0.078	0.320	0.078	0.320	0.078	0.320	0.078	0.320	0.077	0.320	0.077	0.320	0.077
0.320	0.077	0.320	0.076	0.320	0.076	0.320	0.076	0.310	0.076	0.310	0.076	0.310	0.075	0.310	0.075
0.310	0.075	0.310	0.075	0.310	0.074	0.310	0.074	0.310	0.074	0.310	0.074	0.310	0.074	0.310	0.073
0.300	0.073	0.300	0.073	0.300	0.073	0.300	0.073	0.300	0.072	0.300	0.072	0.300	0.072	0.300	0.072
0.300	0.072	0.300	0.071	0.290	0.071	0.290	0.071	0.290	0.071	0.290	0.071	0.290	0.070	0.290	0.070
0.290	0.070	0.290	0.070	0.280	0.070	0.280	0.069	0.280	0.069	0.280	0.069	0.280	0.069	0.280	0.069
0.280	0.068	0.280	0.068	0.280	0.068	0.280	0.068	0.280	0.068	0.280	0.068	0.280	0.067	0.280	0.067
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0.270	0.066	0.270	0.065	0.270	0.065	0.270	0.065	0.270	0.065	0.270	0.065	0.270	0.065	0.270	0.065
0.270	0.064	0.270	0.064	0.270	0.064	0.270	0.064	0.270	0.064	0.270	0.064	0.270	0.063	0.270	0.063
0.270	0.063	0.270	0.063	0.270	0.063	0.270	0.063	0.260	0.062	0.260	0.062	0.260	0.062	0.260	0.062
0.260	0.062	0.260	0.062	0.260	0.062	0.260	0.061	0.260	0.061	0.260	0.061	0.260	0.061	0.260	0.061

0.260	0.061	0.260	0.061	0.250	0.060	0.250	0.060	0.250	0.060	0.250	0.060	0.250	0.060	0.250	0.060
0.250	0.060	0.250	0.059	0.250	0.059	0.250	0.059	0.250	0.059	0.240	0.059	0.240	0.059	0.240	0.059
0.240	0.058	0.240	0.058	0.240	0.058	0.240	0.058	0.240	0.058	0.240	0.058	0.240	0.058	0.240	0.058
0.240	0.057	0.240	0.057	0.240	0.057	0.240	0.057	0.240	0.057	0.240	0.057	0.240	0.057	0.240	0.057
0.230	0.056	0.230	0.056	0.230	0.056	0.230	0.056	0.230	0.056	0.230	0.056	0.230	0.056	0.230	0.056
0.230	0.055	0.230	0.055	0.220	0.055	0.220	0.055	0.220	0.055	0.220	0.055	0.220	0.055	0.220	0.055
0.220	0.054	0.220	0.054	0.220	0.054	0.220	0.054	0.220	0.054	0.220	0.054	0.220	0.054	0.220	0.054
0.220	0.054	0.220	0.053	0.220	0.053	0.220	0.053	0.220	0.053	0.210	0.053	0.210	0.053	0.210	0.053
0.210	0.053	0.210	0.053	0.210	0.052	0.210	0.052	0.210	0.052	0.210	0.052	0.210	0.052	0.210	0.052
0.210	0.052	0.210	0.052	0.210	0.052	0.210	0.052	0.210	0.051	0.210	0.051	0.210	0.051	0.210	0.051
0.210	0.051	0.200	0.051	0.200	0.051	0.200	0.051	0.200	0.051	0.200	0.050	0.200	0.050	0.200	0.050
0.200	0.050	0.200	0.050	0.200	0.050	0.200	0.050	0.200	0.050	0.200	0.050	0.200	0.050	0.200	0.050
0.200	0.049	0.190	0.049	0.190	0.049	0.190	0.049	0.190	0.049	0.190	0.049	0.190	0.049	0.190	0.049
0.190	0.049	0.190	0.049	0.190	0.048	0.190	0.048	0.190	0.048	0.190	0.048	0.190	0.048	0.190	0.049
0.190	0.048	0.190	0.048	0.190	0.048	0.190	0.048	0.190	0.048	0.190	0.047	0.180	0.047	0.180	0.047
0.180	0.047	0.180	0.047	0.180	0.047	0.180	0.047	0.180	0.047	0.180	0.047	0.180	0.047	0.180	0.047
0.180	0.047	0.180	0.046	0.180	0.046	0.180	0.046	0.180	0.046	0.180	0.046	0.180	0.046	0.180	0.046
0.180	0.046	0.180	0.046	0.180	0.046	0.180	0.046	0.180	0.046	0.180	0.045	0.180	0.045	0.180	0.045
0.180	0.045	0.180	0.045	0.180	0.045	0.180	0.045	0.180	0.045	0.180	0.045	0.180	0.045	0.180	0.045
0.170	0.045	0.180	0.044	0.170	0.044	0.170	0.044	0.170	0.044	0.170	0.044	0.170	0.044	0.170	0.044
0.170	0.044	0.170	0.044	0.170	0.044	0.170	0.044	0.170	0.044	0.170	0.044	0.170	0.043	0.170	0.043
0.170	0.043	0.170	0.043	0.170	0.043	0.170	0.043	0.170	0.043	0.170	0.043	0.160	0.043	0.160	0.043
0.160	0.043	0.160	0.043	0.160	0.043	0.160	0.043	0.160	0.042	0.160	0.042	0.160	0.042	0.160	0.042
0.160	0.042	0.160	0.042	0.160	0.042	0.150	0.042	0.160	0.042	0.160	0.042	0.160	0.042	0.150	0.042
0.150	0.042	0.150	0.042	0.150	0.042	0.150	0.041	0.150	0.041	0.150	0.041	0.150	0.041	0.150	0.041
0.150	0.041	0.150	0.041	0.150	0.041	0.150	0.041	0.150	0.041	0.150	0.041	0.150	0.041	0.150	0.041
0.150	0.041	0.150	0.041	0.150	0.040	0.150	0.040	0.150	0.040	0.150	0.040	0.140	0.040	0.140	0.040
0.140	0.040	0.140	0.040	0.140	0.040	0.140	0.040	0.140	0.040	0.140	0.040	0.140	0.040	0.140	0.040
0.140	0.040	0.140	0.040	0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039
0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039	0.140	0.039
0.140	0.039	0.140	0.039	0.140	0.038	0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.038
0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.039
0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.038	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037
0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037
0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.037	0.130	0.036	0.130	0.036
0.130	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036
0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036	0.120	0.036
0.120	0.036	0.120	0.036	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035
0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035
0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.035	0.120	0.034	0.120	0.034
0.120	0.034	0.120	0.034	0.120	0.034	0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034
0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034
0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.034	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033
0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033
0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.033
0.110	0.033	0.110	0.033	0.110	0.033	0.110	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032
0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032
0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032
0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.032	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031
0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031
0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031
0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.031	0.100	0.030	0.090	0.030
0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030
0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030
0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030	0.090	0.030
0.090	0.030	0.090	0.030	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029
0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029

0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029
0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029	0.090	0.029
0.080	0.028	0.080	0.028	0.080	0.028	0.090	0.028	0.080	0.028	0.090	0.028	0.090	0.028	0.080	0.028
0.080	0.028	0.080	0.028	0.090	0.028	0.080	0.028	0.080	0.028	0.050	0.028	0.080	0.028	0.080	0.028
0.080	0.028	0.080	0.028	0.090	0.028	0.080	0.028	0.080	0.028	0.080	0.028	0.080	0.028	0.080	0.028
0.080	0.028	0.080	0.028	0.090	0.028	0.050	0.028	0.080	0.028	0.090	0.028	0.050	0.028	0.080	0.028
0.080	0.027	0.080	0.027	0.090	0.027	0.090	0.027	0.080	0.027	0.080	0.027	0.090	0.027	0.080	0.027
0.080	0.027	0.080	0.027	0.080	0.027	0.080	0.027	0.080	0.027	0.080	0.027	0.080	0.027	0.080	0.027
0.080	0.027	0.080	0.027	0.090	0.027	0.090	0.027	0.080	0.027	0.070	0.027	0.070	0.027	0.070	0.027
0.070	0.027	0.070	0.027	0.070	0.027	0.070	0.027	0.070	0.027	0.070	0.027	0.070	0.027	0.070	0.027
0.070	0.027	0.070	0.027	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026
0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026
0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026
0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026
0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026	0.070	0.026
0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025
0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025
0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.070	0.025	0.060	0.025
0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025
0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025	0.060	0.025
0.060	0.024	0.060	0.024	0.050	0.024	0.060	0.024	0.060	0.024	0.060	0.024	0.060	0.024	0.060	0.024
0.060	0.024	0.060	0.024	0.050	0.024	0.060	0.024	0.060	0.024	0.050	0.024	0.060	0.024	0.050	0.024
0.050	0.024	0.060	0.024	0.060	0.024	0.060	0.024	0.060	0.024	0.060	0.024	0.060	0.024	0.060	0.024
0.060	0.024	0.060	0.024	0.060	0.024	0.050	0.024	0.060	0.024	0.050	0.024	0.060	0.024	0.060	0.024
0.060	0.024	0.060	0.024	0.050	0.024	0.050	0.024	0.060	0.024	0.060	0.024	0.060	0.024	0.060	0.024
0.060	0.024	0.060	0.024	0.050	0.024	0.050	0.023	0.050	0.023	0.060	0.023	0.060	0.023	0.060	0.023
0.060	0.023	0.060	0.023	0.050	0.023	0.060	0.023	0.060	0.023	0.060	0.023	0.060	0.023	0.060	0.023
0.060	0.023	0.060	0.023	0.060	0.023	0.050	0.023	0.060	0.023	0.060	0.023	0.060	0.023	0.060	0.023
0.060	0.023	0.060	0.023	0.050	0.023	0.060	0.023	0.060	0.023	0.050	0.023	0.060	0.023	0.060	0.023
0.060	0.023	0.060	0.023	0.060	0.023	0.050	0.023	0.060	0.023	0.050	0.023	0.060	0.023	0.060	0.023
0.060	0.023	0.050	0.023	0.050	0.023	0.050	0.023	0.060	0.023	0.060	0.023	0.050	0.023	0.050	0.023
0.050	0.023	0.050	0.023	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022
0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022
0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022
0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022
0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022
0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022
0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.022	0.050	0.021	0.050	0.021	0.050	0.021
0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021
0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021
0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021
0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.050	0.021	0.040	0.021
0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021
0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021
0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.021	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020
0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.020	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019
0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019
0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019
0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019	0.040	0.019
0.040	0.019	0.040	0.019	0.040	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019

0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019
0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019
0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019
0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019	0.030	0.019
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018	0.030	0.018
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0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.015	0.020	0.014	0.020	0.014	0.020	0.014
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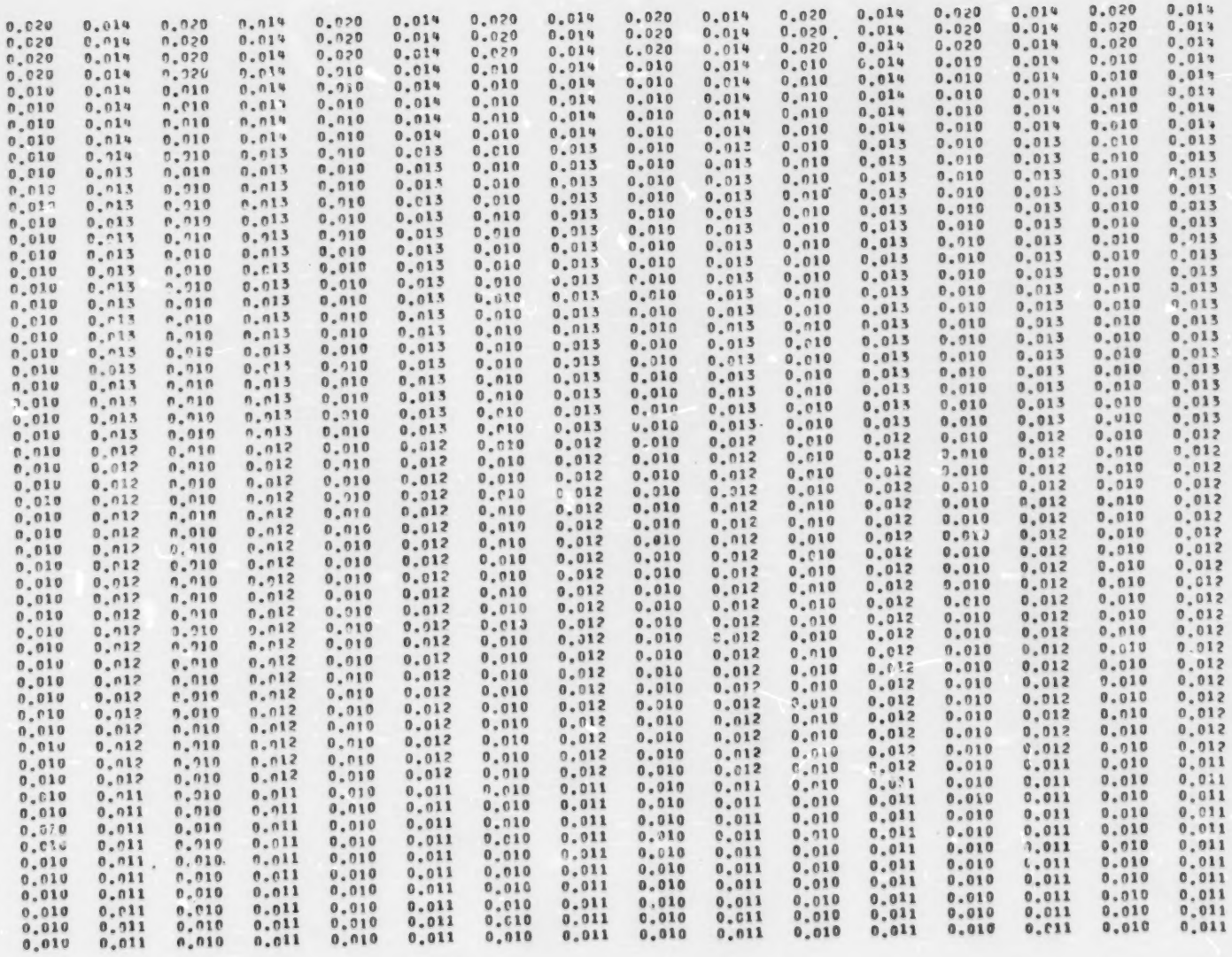

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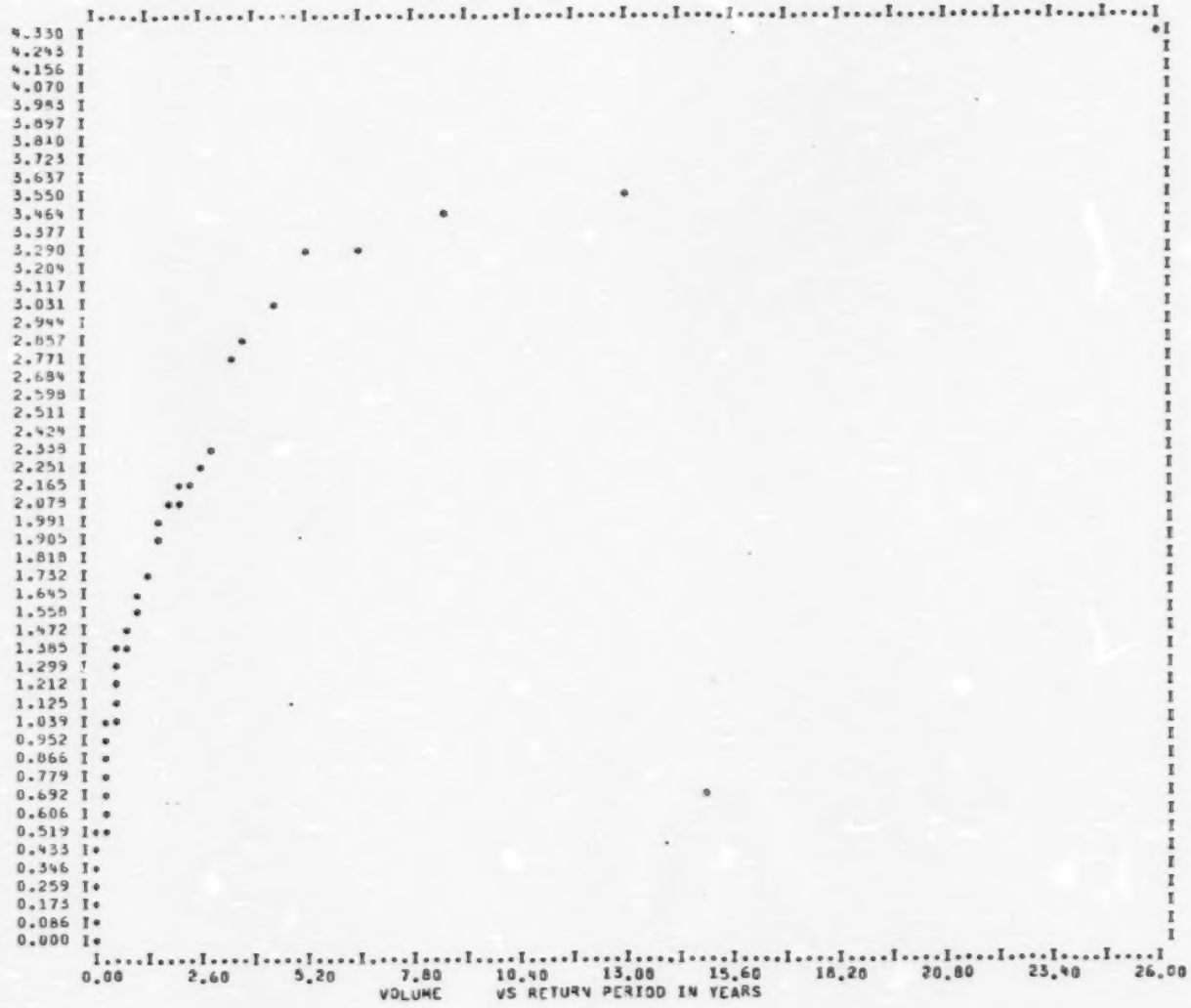
0.010	0.011	0.010	0.011												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0.519
0.433
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0.259
0.173
0.086
0.000
0.00
2.60
5.20
7.80
10.40
13.00
15.60
18.20
20.80
23.40
26.00
VOLUME VS RETURN PERIOD IN YEARS

PROBABILITY ANALYSIS-DELTA

PERCENTAGE OF OCCURRENCE LESS THAN OR EQUAL TO THE GIVEN VALUE OF DELTA

VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT	VALUE	PCT
0.000	0.042	4.000	0.084	4.000	0.127	4.000	0.169	4.000	0.212	4.000	0.254	4.000	0.297	4.000	0.339
4.000	0.382	4.000	0.424	4.000	0.467	4.000	0.509	4.000	0.552	4.000	0.594	4.000	0.637	4.000	0.679
4.000	0.722	4.000	0.764	4.000	0.807	4.500	0.849	4.500	0.892	4.500	0.934	4.500	0.977	4.500	1.019
4.500	1.062	4.500	1.104	4.500	1.146	4.500	1.189	4.500	1.231	4.500	1.274	4.500	1.316	5.000	1.359
5.000	1.401	5.000	1.444	5.000	1.486	5.000	1.529	5.000	1.571	5.000	1.614	5.000	1.656	5.000	1.699
5.000	1.741	5.000	1.784	5.000	1.826	5.000	1.869	5.000	1.911	5.000	1.954	5.000	1.996	5.000	2.039
5.000	2.081	5.000	2.124	5.000	2.166	5.000	2.209	5.500	2.251	5.500	2.293	5.500	2.336	5.500	2.378
5.500	2.421	5.500	2.463	5.500	2.506	5.500	2.548	5.500	2.591	5.500	2.633	5.500	2.676	5.500	2.718
5.500	2.761	5.500	2.803	5.500	2.846	5.500	2.888	5.500	2.931	5.500	2.973	5.500	3.016	5.500	3.058
5.500	3.101	5.500	3.143	5.500	3.186	5.500	3.228	5.500	3.271	5.500	3.313	5.500	3.355	5.500	3.398
5.500	3.440	5.500	3.483	5.500	3.525	6.000	3.568	6.000	3.610	6.000	3.653	6.000	3.695	6.000	3.738
6.000	3.780	6.000	3.823	6.000	3.865	6.000	3.908	6.000	3.950	6.000	3.993	6.000	4.035	6.000	4.078
6.000	4.120	6.000	4.163	6.000	4.205	6.000	4.248	6.000	4.290	6.000	4.333	6.000	4.375	6.000	4.418
6.000	4.460	6.000	4.502	6.000	4.545	6.000	4.587	6.000	4.630	6.000	4.672	6.000	4.715	6.000	4.757
6.000	4.800	6.000	4.842	6.000	4.885	6.000	4.927	6.000	4.970	6.000	5.012	6.000	5.055	6.000	5.097
6.000	5.140	6.000	5.182	6.000	5.225	6.000	5.267	6.000	5.310	6.500	5.352	6.500	5.395	6.500	5.437
6.500	5.480	6.500	5.522	6.500	5.564	6.500	5.607	6.500	5.649	6.500	5.692	6.500	5.734	6.500	5.777
6.500	5.819	6.500	5.862	6.500	5.904	6.500	5.947	6.500	5.989	6.500	6.032	6.500	6.074	6.500	6.117
6.500	6.159	6.500	6.202	6.500	6.244	6.500	6.287	6.500	6.329	6.500	6.372	6.500	6.414	7.000	6.457
7.000	6.499	7.000	6.542	7.000	6.584	7.000	6.627	7.000	6.669	7.000	6.711	7.000	6.754	7.000	6.796
7.000	6.839	7.000	6.881	7.000	6.924	7.000	6.966	7.000	7.009	7.000	7.051	7.000	7.094	7.000	7.136
7.000	7.179	7.000	7.221	7.000	7.264	7.000	7.306	7.000	7.349	7.000	7.391	7.000	7.434	7.000	7.476
7.000	7.519	7.000	7.561	7.500	7.604	7.500	7.646	7.500	7.689	7.500	7.731	7.500	7.774	7.500	7.815
7.500	7.858	7.500	7.901	7.500	7.943	7.500	7.986	7.500	8.028	7.500	8.071	7.500	8.113	7.500	8.156
7.500	8.198	7.500	8.241	7.500	8.283	7.500	8.326	7.500	8.368	7.500	8.411	7.500	8.453	7.500	8.496
7.500	8.538	7.500	8.581	7.500	8.623	7.500	8.666	7.500	8.708	7.500	8.751	7.500	8.793	7.500	8.836
8.000	8.878	8.000	8.920	8.000	8.963	8.000	9.005	8.000	9.048	8.000	9.090	8.000	9.133	8.000	9.175
8.000	9.218	8.000	9.260	8.000	9.303	8.000	9.345	8.000	9.388	8.000	9.430	8.000	9.473	8.000	9.515
8.000	9.558	8.000	9.600	8.000	9.643	8.000	9.685	8.000	9.728	8.000	9.770	8.000	9.813	8.000	9.855
8.000	9.898	8.000	9.940	8.000	9.983	8.000	10.025	8.000	10.067	8.000	10.110	8.500	10.152	8.500	10.195
8.500	10.237	8.500	10.280	8.500	10.322	8.500	10.365	8.500	10.407	8.500	10.450	8.500	10.492	8.500	10.535
8.500	10.577	8.500	10.620	8.500	10.662	8.500	10.705	8.500	10.747	8.500	10.790	8.500	10.832	8.500	10.875
8.500	10.917	8.500	10.960	8.500	11.002	8.500	11.045	8.500	11.087	8.500	11.129	8.500	11.172	8.500	11.214
8.500	11.257	8.500	11.299	8.500	11.342	8.500	11.384	8.500	11.427	9.000	11.469	9.000	11.512	9.000	11.554
9.000	11.597	9.000	11.639	9.000	11.682	9.000	11.724	9.000	11.767	9.000	11.809	9.000	11.852	9.000	11.894
9.000	11.937	9.000	11.979	9.000	12.022	9.000	12.064	9.000	12.107	9.000	12.149	9.000	12.192	9.000	12.234
9.000	12.276	9.000	12.319	9.000	12.361	9.000	12.404	9.000	12.446	9.000	12.489	9.000	12.531	9.000	12.574
9.000	12.616	9.000	12.659	9.000	12.701	9.000	12.744	9.500	12.786	9.500	12.829	9.500	12.871	9.500	12.914
9.500	12.956	9.500	12.999	9.500	13.041	9.500	13.084	9.500	13.126	9.500	13.169	9.500	13.211	9.500	13.254
9.500	13.296	9.500	13.338	9.500	13.381	9.500	13.423	9.500	13.466	9.500	13.508	9.500	13.551	9.500	13.593
9.500	13.636	9.500	13.678	9.500	13.721	9.500	13.763	9.500	13.806	9.500	13.848	9.500	13.891	10.000	13.933
10.000	13.976	10.000	14.018	10.000	14.061	10.000	14.103	10.000	14.146	10.000	14.188	10.000	14.231	10.000	14.273
10.000	14.316	10.000	14.358	10.000	14.401	10.000	14.443	10.000	14.485	10.000	14.528	10.000	14.570	10.000	14.613
10.000	14.655	10.000	14.698	10.000	14.740	10.000	14.783	10.000	14.825	10.000	14.868	10.000	14.910	10.000	14.953
10.000	14.995	10.000	15.038	10.000	15.080	10.000	15.123	10.000	15.165	10.000	15.208	10.000	15.250	10.000	15.293
10.500	15.335	10.500	15.378	10.500	15.420	10.500	15.463	10.500	15.505	10.500	15.548	10.500	15.590	10.500	15.632
10.500	15.675	10.500	15.717	10.500	15.760	10.500	15.802	10.500	15.845	10.500	15.887	10.500	15.930	10.500	15.972
10.500	16.015	10.500	16.057	10.500	16.100	10.500	16.142	10.500	16.185	10.500	16.227	10.500	16.270	10.500	16.312
10.500	16.355	10.500	16.397	11.000	16.440	11.000	16.482	11.000	16.525	11.000	16.567	11.000	16.610	11.000	16.652
11.000	16.694	11.000	16.737	11.000	16.779	11.000	16.822	11.000	16.864	11.000	16.907	11.000	16.949	11.000	16.992
11.000	17.034	11.000	17.077	11.000	17.119	11.000	17.162	11.000	17.204	11.000	17.247	11.500	17.289	11.500	17.332

11.500	17.374	11.500	17.417	11.500	17.459	11.500	17.502	11.500	17.544	11.500	17.587	11.500	17.629	11.500	17.672
11.500	17.714	11.500	17.757	11.500	17.799	11.500	17.841	11.500	17.884	11.500	17.926	11.500	17.969	11.500	18.011
11.500	18.054	11.500	18.096	11.500	18.139	11.500	18.181	11.500	18.224	11.500	18.266	12.000	18.309	12.000	18.351
12.000	18.394	12.000	18.436	12.000	18.479	12.000	18.521	12.000	18.564	12.000	18.606	12.000	18.649	12.000	18.691
12.000	18.734	12.000	18.776	12.000	18.819	12.000	18.861	12.000	18.903	12.000	18.946	12.000	18.988	12.000	19.031
12.000	19.073	12.500	19.116	12.500	19.158	12.500	19.201	12.500	19.243	12.500	19.286	12.500	19.328	12.500	19.371
12.500	19.413	12.500	19.456	12.500	19.498	12.500	19.541	12.500	19.583	12.500	19.626	12.500	19.668	13.000	19.711
13.000	19.753	13.000	19.796	13.000	19.838	13.000	19.881	13.000	19.923	13.000	19.966	13.000	20.008	13.000	20.050
13.000	20.093	13.000	20.135	13.000	20.178	13.000	20.220	13.000	20.263	13.000	20.305	13.000	20.348	13.000	20.390
13.000	20.433	13.000	20.475	13.000	20.518	13.000	20.560	13.000	20.603	13.000	20.645	13.000	20.688	13.000	20.730
13.500	20.773	13.500	20.815	13.500	20.858	13.500	20.900	13.500	20.943	13.500	20.985	13.500	21.028	13.500	21.070
13.500	21.113	13.500	21.155	13.500	21.197	13.500	21.240	13.500	21.282	13.500	21.325	13.500	21.367	13.500	21.410
13.500	21.452	13.500	21.495	13.500	21.537	14.000	21.580	14.000	21.622	14.000	21.665	14.000	21.707	14.000	21.750
14.000	21.792	14.000	21.835	14.000	21.877	14.000	21.920	14.000	21.962	14.000	22.005	14.000	22.047	14.000	22.090
14.000	22.132	14.000	22.175	14.000	22.217	14.000	22.259	14.000	22.302	14.000	22.344	14.000	22.387	14.000	22.429
14.000	22.472	14.000	22.514	14.000	22.557	14.000	22.599	14.000	22.642	14.000	22.684	14.000	22.727	14.000	22.769
14.500	22.812	14.500	22.854	14.500	22.897	14.500	22.939	14.500	22.982	14.500	23.024	14.500	23.067	14.500	23.109
14.500	23.152	14.500	23.194	14.500	23.237	14.500	23.279	14.500	23.322	14.500	23.364	14.500	23.406	14.500	23.449
14.500	23.491	14.500	23.534	15.000	23.576	15.000	23.619	15.000	23.661	15.000	23.704	15.000	23.746	15.000	23.789
15.000	23.831	15.000	23.874	15.000	23.916	15.000	23.959	15.000	24.001	15.000	24.044	15.000	24.086	15.000	24.129
15.000	24.171	15.000	24.213	15.000	24.256	15.000	24.299	15.500	24.341	15.500	24.384	15.500	24.426	15.500	24.469
15.500	24.511	15.500	24.553	15.500	24.596	15.500	24.638	15.500	24.681	15.500	24.723	15.500	24.766	15.500	24.809
15.500	24.851	15.500	24.893	15.500	24.936	15.500	24.978	15.500	25.021	15.500	25.063	16.000	25.106	16.000	25.149
16.000	25.191	16.000	25.233	16.000	25.276	16.000	25.318	16.000	25.361	16.000	25.403	16.000	25.446	16.000	25.489
16.000	25.531	16.000	25.573	16.500	25.615	16.500	25.659	16.500	25.709	16.500	25.753	16.500	25.785	16.500	25.829
16.500	25.870	16.500	25.913	16.500	25.955	16.500	25.998	16.500	26.040	16.500	26.083	17.000	26.125	17.000	26.168
17.000	26.210	17.000	26.253	17.000	26.295	17.000	26.338	17.000	26.380	17.000	26.423	17.000	26.465	17.000	26.508
17.000	26.550	17.000	26.593	17.000	26.635	17.000	26.677	17.000	26.720	17.000	26.762	17.000	26.805	17.000	26.847
17.000	26.890	17.000	26.932	17.000	26.975	17.000	27.017	17.000	27.060	17.000	27.102	17.500	27.145	17.500	27.187
17.500	27.230	17.500	27.272	17.500	27.315	17.500	27.357	17.500	27.400	17.500	27.442	17.500	27.485	17.500	27.527
17.500	27.570	17.500	27.612	17.500	27.655	17.500	27.697	17.500	27.740	17.500	27.782	17.500	27.824	18.000	27.867
18.000	27.909	18.000	27.952	18.000	27.994	18.000	28.037	18.000	28.079	18.000	28.122	18.000	28.164	18.000	28.207
18.000	28.249	18.000	28.292	18.000	28.334	18.000	28.377	18.000	28.419	18.000	28.462	18.000	28.504	18.000	28.547
18.500	28.589	18.500	28.632	18.500	28.674	18.500	28.717	18.500	28.759	18.500	28.802	18.500	28.844	18.500	28.887
18.500	28.929	18.500	28.971	18.500	29.014	18.500	29.056	18.500	29.099	18.500	29.141	18.500	29.184	18.500	29.226
18.500	29.269	18.500	29.311	18.500	29.354	19.000	29.396	19.000	29.439	19.000	29.481	19.000	29.524	19.000	29.566
19.000	29.609	19.000	29.651	19.000	29.694	19.000	29.736	19.000	29.779	19.000	29.821	19.000	29.864	19.000	29.906
19.000	29.949	19.000	29.991	19.000	30.033	19.000	30.076	19.500	30.118	19.500	30.161	19.500	30.203	19.500	30.246
19.500	30.288	19.500	30.331	19.500	30.373	19.500	30.416	19.500	30.458	19.500	30.501	19.500	30.543	19.500	30.586
19.500	30.628	19.500	30.671	19.500	30.713	20.000	30.756	20.000	30.798	20.000	30.841	20.000	30.883	20.000	30.926
20.000	30.968	20.000	31.011	20.000	31.053	20.000	31.096	20.000	31.138	20.000	31.180	20.000	31.223	20.000	31.265
20.000	31.308	20.000	31.350	20.000	31.393	20.000	31.435	20.000	31.478	20.000	31.520	20.000	31.563	20.000	31.605
20.000	31.648	20.000	31.690	20.000	31.733	20.500	31.775	20.500	31.818	20.500	31.860	20.500	31.903	20.500	31.945
20.500	31.988	20.500	32.030	20.500	32.073	20.500	32.115	20.500	32.158	20.500	32.200	20.500	32.242	20.500	32.285
20.500	32.327	20.500	32.370	20.500	32.412	21.000	32.455	21.000	32.497	21.000	32.540	21.000	32.582	21.000	32.625
21.000	32.667	21.000	32.710	21.000	32.752	21.000	32.795	21.000	32.837	21.000	32.880	21.000	32.922	21.000	32.965
21.000	33.007	21.000	33.050	21.000	33.092	21.000	33.135	21.500	33.177	21.500	33.220	21.500	33.262	21.500	33.305
21.500	33.347	21.500	33.389	21.500	33.432	21.500	33.474	21.500	33.517	21.500	33.559	21.500	33.602	21.500	33.644
21.500	33.687	21.500	33.729	21.500	33.772	21.500	33.814	21.500	33.857	22.000	33.899	22.000	33.942	22.000	33.984
22.000	34.027	22.000	34.069	22.000	34.112	22.000	34.154	22.000	34.197	22.000	34.239	22.000	34.282	22.000	34.324
22.000	34.367	22.000	34.409	22.000	34.452	22.000	34.494	22.000	34.536	22.000	34.579	22.000	34.621	22.000	34.664
22.500	34.706	22.500	34.749	22.500	34.791	22.500	34.834	22.500	34.876	22.500	34.919	22.500	34.961	22.500	35.004
22.500	35.046	22.500	35.089	22.500	35.131	22.500	35.174	22.500	35.216	22.500	35.259	22.500	35.301	22.500	35.344
23.000	35.386	23.000	35.429	23.000	35.471	23.000	35.514	23.000	35.556	23.000	35.598	23.000	35.641	23.000	35.683
23.000	35.726	23.000	35.768	23.000	35.811	23.000	35.853	23.000	35.896	23.000	35.938	23.000	35.981	23.000	36.023
23.500	36.066	23.500	36.108	23.500	36.151	23.500	36.193	23.500	36.236	23.500	36.278	23.500	36.321	23.500	36.363
23.500	36.406	23.500	36.448	23.500	36.491	23.500	36.533	23.500	36.576	23.500	36.618	23.500	36.661	23.500	36.703

23.500	36.795	23.500	36.788	23.500	36.830	23.500	36.873	23.500	36.915	24.000	36.958	24.000	37.000	24.000	37.043
24.000	37.085	24.000	37.128	24.000	37.170	24.000	37.213	24.000	37.255	24.000	37.298	24.000	37.340	24.000	37.383
24.000	37.425	24.000	37.468	24.000	37.510	24.000	37.553	24.000	37.595	24.000	37.638	24.500	37.680	24.500	37.723
24.500	37.765	24.500	37.807	24.500	37.850	24.500	37.892	24.500	37.935	24.500	37.977	24.500	38.020	24.500	38.062
24.500	38.105	24.500	38.147	25.000	38.190	25.000	38.232	25.000	38.275	25.000	38.317	25.000	38.360	25.000	38.402
25.000	38.445	25.000	38.487	25.000	38.530	25.000	38.572	25.000	38.615	25.000	38.657	25.000	38.700	25.000	38.742
25.000	38.785	25.500	38.827	25.500	38.870	25.500	38.912	25.500	38.954	25.500	38.997	25.500	39.039	25.500	39.082
25.500	39.124	25.500	39.167	26.000	39.209	26.000	39.252	26.000	39.294	26.000	39.337	26.000	39.379	26.000	39.422
26.000	39.464	26.000	39.507	26.000	39.549	26.000	39.592	26.000	39.634	26.000	39.677	26.000	39.719	26.000	39.762
26.000	39.804	26.000	39.847	26.000	39.889	26.000	39.932	26.000	39.974	26.000	40.016	26.500	40.059	26.500	40.101
26.500	40.144	26.500	40.186	26.500	40.229	26.500	40.271	26.500	40.314	26.500	40.356	26.500	40.399	26.500	40.441
26.500	40.484	26.500	40.526	27.000	40.569	27.000	40.611	27.000	40.654	27.000	40.696	27.000	40.739	27.000	40.781
27.000	40.824	27.000	40.866	27.000	40.909	27.000	40.951	27.000	40.994	27.500	41.036	27.500	41.079	27.500	41.121
27.500	41.163	27.500	41.206	27.500	41.248	27.500	41.291	27.500	41.333	27.500	41.376	27.500	41.418	27.500	41.461
27.500	41.503	27.500	41.546	27.500	41.588	28.000	41.631	28.000	41.673	28.000	41.716	28.000	41.758	28.000	41.801
28.000	41.843	28.000	41.886	28.000	41.928	28.000	41.971	28.000	42.013	28.500	42.056	28.500	42.098	28.500	42.141
28.500	42.183	28.500	42.226	28.500	42.268	28.500	42.310	28.500	42.353	28.500	42.395	28.500	42.438	28.500	42.480
29.000	42.523	29.000	42.565	29.000	42.608	29.000	42.650	29.000	42.693	29.000	42.735	29.000	42.778	29.000	42.820
29.000	42.863	29.000	42.905	29.000	42.948	29.000	42.990	29.500	43.033	29.500	43.075	29.500	43.118	29.500	43.160
29.500	43.203	30.000	43.245	30.000	43.288	30.000	43.330	30.000	43.372	30.500	43.415	30.500	43.457	30.500	43.500
30.500	43.542	30.500	43.585	30.500	43.627	31.000	43.670	31.000	43.712	31.500	43.755	31.500	43.797	31.500	43.840
31.500	43.882	31.500	43.925	31.500	43.967	31.500	44.010	31.500	44.052	31.500	44.095	32.000	44.137	32.000	44.180
32.000	44.222	32.000	44.265	32.000	44.307	32.000	44.350	32.000	44.392	32.000	44.435	32.000	44.477	32.500	44.519
32.500	44.562	33.000	44.604	33.000	44.647	33.500	44.689	33.500	44.732	33.500	44.774	33.500	44.817	34.000	44.859
34.000	44.902	34.000	44.944	34.000	44.987	34.000	45.029	34.000	45.072	34.500	45.114	34.500	45.157	34.500	45.199
35.000	45.242	35.000	45.284	35.000	45.327	35.000	45.369	35.500	45.412	35.500	45.454	35.500	45.497	35.500	45.539
36.000	45.581	36.000	45.624	36.000	45.666	36.000	45.709	36.000	45.751	36.000	45.794	36.000	45.836	36.000	45.879
36.000	45.921	36.500	45.964	36.500	46.006	36.500	46.049	36.500	46.091	36.500	46.134	37.000	46.176	37.000	46.219
37.000	46.261	37.000	46.304	37.000	46.346	37.500	46.389	37.500	46.431	37.500	46.474	38.000	46.516	38.000	46.559
38.000	46.601	38.000	46.644	38.000	46.686	38.000	46.728	38.000	46.771	38.500	46.813	38.500	46.856	38.500	46.898
38.500	46.941	38.500	46.983	38.500	47.026	38.500	47.068	38.500	47.111	39.000	47.153	39.000	47.196	39.000	47.238
39.000	47.281	39.000	47.323	39.000	47.366	39.500	47.408	39.500	47.451	39.500	47.493	39.500	47.536	40.000	47.578
40.000	47.621	40.000	47.663	40.000	47.706	40.000	47.748	40.500	47.791	40.500	47.833	40.500	47.875	40.500	47.918
40.500	47.960	40.500	48.003	40.500	48.045	41.000	48.088	41.500	48.130	41.500	48.173	41.500	48.215	42.000	48.258
42.000	48.300	42.000	48.343	42.000	48.385	42.000	48.428	42.000	48.470	42.500	48.513	42.500	48.555	42.500	48.598
42.500	48.640	43.000	48.683	43.000	48.725	43.000	48.768	43.000	48.810	43.000	48.853	43.000	48.895	43.000	48.937
43.000	48.980	43.500	49.022	43.500	49.065	43.500	49.107	43.500	49.150	43.500	49.192	44.000	49.235	44.000	49.277
44.000	49.320	44.000	49.362	44.000	49.405	44.000	49.447	44.000	49.490	44.000	49.532	44.000	49.575	44.500	49.617
44.500	49.660	44.500	49.702	44.500	49.745	44.500	49.787	44.500	49.830	44.500	49.872	44.500	49.915	44.500	49.957
44.500	50.000	44.500	50.042	44.500	50.084	45.000	50.127	45.000	50.169	45.000	50.212	45.000	50.254	45.500	50.297
45.500	50.339	45.500	50.382	45.500	50.424	45.500	50.467	45.500	50.509	45.500	50.552	45.500	50.594	46.000	50.637
46.000	50.679	46.000	50.722	46.000	50.764	46.000	50.807	46.000	50.849	46.000	50.892	46.000	50.934	46.000	50.977
46.000	51.019	46.000	51.062	46.000	51.104	46.500	51.146	46.500	51.189	46.500	51.231	46.500	51.274	46.500	51.316
46.500	51.359	46.500	51.401	46.500	51.444	46.500	51.486	47.000	51.529	47.000	51.571	47.000	51.614	47.000	51.656
47.000	51.699	47.000	51.741	47.000	51.784	47.000	51.826	47.000	51.869	47.000	51.911	47.000	51.954	47.500	51.996
47.500	52.039	47.500	52.081	47.500	52.124	47.500	52.166	47.500	52.209	47.500	52.251	47.500	52.293	48.000	52.336
48.000	52.378	48.000	52.421	48.000	52.463	48.000	52.506	48.000	52.548	48.000	52.591	48.000	52.633	48.000	52.676
48.500	52.718	48.500	52.761	48.500	52.803	48.500	52.846	48.500	52.888	48.500	52.931	48.500	52.973	48.500	53.016
49.000	53.058	49.000	53.101	49.000	53.143	49.000	53.186	49.000	53.228	49.000	53.271	49.000	53.313	49.000	53.355
49.000	53.398	49.000	53.440	49.000	53.483	49.500	53.525	49.500	53.568	49.500	53.610	49.500	53.653	50.000	53.695
50.000	53.738	50.000	53.780	50.000	53.823	50.000	53.865	50.000	53.908	50.500	53.950	50.500	53.993	50.500	54.035
50.500	54.078	50.500	54.120	50.500	54.163	50.500	54.205	51.000	54.248	51.000	54.290	51.000	54.333	51.000	54.375
51.000	54.418	51.000	54.460	51.500	54.502	51.500	54.545	51.500	54.587	51.500	54.630	51.500	54.672	52.000	54.715
52.000	54.757	52.000	54.800	52.000	54.842	52.000	54.885	52.000	54.927	52.500	54.970	52.500	55.012	52.500	55.055
53.000	55.097	53.000	55.140	53.000	55.182	53.000	55.225	53.500	55.267	53.500	55.310	53.500	55.352	53.500	55.395
53.500	55.437	54.000	55.480	54.000	55.522	54.500	55.565	55.000	55.607	55.000	55.649	55.000	55.692	55.000	55.734
55.000	55.777	55.500	55.819	55.500	55.862	56.000	55.904	56.000	55.947	57.000	55.989	57.000	56.032	57.000	56.074

57.000	56.117	57.000	56.159	57.000	56.202	57.000	56.244	57.500	56.287	57.500	56.329	57.500	56.372	57.500	56.414
58.000	56.457	58.000	56.499	58.000	56.542	58.000	56.584	58.500	56.627	58.500	56.669	59.000	56.711	59.000	56.754
59.000	56.796	59.000	56.839	59.000	56.881	59.500	56.924	59.500	56.966	59.500	57.009	60.000	57.051	60.000	57.094
60.000	57.136	60.000	57.179	60.500	57.221	60.500	57.264	61.000	57.306	61.000	57.349	61.000	57.391	61.500	57.434
62.000	57.476	62.000	57.519	62.500	57.561	62.500	57.604	63.000	57.646	63.000	57.689	63.000	57.731	63.000	57.774
63.500	57.816	63.500	57.858	63.500	57.901	63.500	57.943	64.000	57.986	64.000	58.028	64.000	58.071	64.000	58.116
64.500	58.156	64.500	58.198	64.500	58.241	64.500	58.283	64.500	58.326	65.000	58.368	65.000	58.411	65.000	58.453
65.000	58.496	65.000	58.538	65.000	58.581	65.000	58.623	65.500	58.666	65.500	58.708	66.000	58.751	66.000	58.793
66.000	58.836	66.000	58.878	66.500	58.920	66.500	58.963	66.500	59.005	66.500	59.048	67.000	59.090	67.000	59.133
67.000	59.175	67.000	59.218	67.000	59.260	67.500	59.303	67.500	59.345	67.500	59.388	67.500	59.430	67.500	59.473
68.000	59.515	68.000	59.558	68.000	59.600	68.500	59.643	69.000	59.685	69.000	59.728	69.000	59.770	69.000	59.813
69.000	59.855	69.000	59.898	69.000	59.940	69.500	59.983	69.500	60.025	69.500	60.067	69.500	60.110	70.000	60.152
70.000	60.195	70.000	60.237	70.500	60.280	70.500	60.322	70.500	60.365	71.000	60.407	71.000	60.450	71.000	60.492
71.000	60.535	71.000	60.577	71.000	60.620	71.000	60.662	71.500	60.705	71.500	60.747	71.500	60.790	71.500	60.832
71.500	60.875	72.000	60.917	72.000	60.960	72.000	61.002	72.000	61.045	72.000	61.087	72.000	61.129	72.000	61.172
72.500	61.214	72.500	61.257	72.500	61.299	72.500	61.342	72.500	61.384	73.000	61.427	73.000	61.469	73.000	61.512
73.000	61.554	73.000	61.597	73.500	61.639	73.500	61.682	73.500	61.724	73.500	61.767	73.500	61.809	73.500	61.852
73.500	61.894	74.000	61.937	74.000	61.979	74.000	62.022	74.000	62.064	74.500	62.107	74.500	62.149	75.000	62.192
75.000	62.234	75.000	62.276	75.000	62.319	75.000	62.361	75.000	62.404	75.000	62.446	75.000	62.489	75.500	62.531
75.500	62.574	76.000	62.616	76.000	62.659	76.000	62.701	76.000	62.744	76.500	62.786	76.500	62.829	76.500	62.871
76.500	62.914	76.500	62.956	77.000	62.999	77.000	63.041	77.000	63.084	77.000	63.126	77.000	63.169	77.500	63.211
77.500	63.254	77.500	63.296	77.500	63.339	77.500	63.381	78.000	63.423	78.000	63.466	78.000	63.508	78.500	63.551
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79.500	63.933	80.000	63.976	80.000	64.018	80.000	64.061	80.000	64.103	80.000	64.146	80.000	64.188	80.500	64.231
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86.500	65.293	87.000	65.335	87.000	65.378	87.000	65.420	87.000	65.463	87.000	65.505	87.500	65.548	88.000	65.590
88.000	65.632	89.000	65.675	89.000	65.717	89.000	65.760	89.500	65.802	89.500	65.845	90.000	65.887	90.000	65.930
91.000	65.972	91.000	66.015	91.000	66.057	91.500	66.100	91.500	66.142	91.500	66.185	91.500	66.227	92.000	66.270
92.000	66.312	92.000	66.355	92.500	66.397	92.500	66.440	92.500	66.482	92.500	66.525	92.500	66.567	92.500	66.610
93.000	66.652	93.000	66.694	93.000	66.737	93.500	66.779	93.500	66.822	93.500	66.864	94.000	66.907	94.000	66.949
94.000	66.992	94.000	67.034	94.000	67.077	94.500	67.119	94.500	67.162	95.000	67.204	95.000	67.247	95.000	67.289
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96.000	67.672	96.000	67.714	96.000	67.757	96.000	67.799	96.000	67.841	96.000	67.884	96.000	67.925	96.500	67.969
96.500	68.011	96.500	68.054	96.500	68.096	97.000	68.139	97.000	68.181	97.000	68.224	97.000	68.266	97.500	68.309
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99.000	68.691	98.500	68.734	98.500	68.776	98.500	68.819	99.000	68.861	99.500	68.904	99.500	68.946	100.000	68.989
100.000	69.031	100.500	69.073	101.000	69.116	101.000	69.158	101.500	69.201	101.500	69.243	101.500	69.286	102.000	69.329
102.000	69.371	102.500	69.413	102.500	69.456	102.500	69.498	102.500	69.541	104.000	69.583	104.000	69.626	104.000	69.669
104.500	69.711	104.500	69.753	104.500	69.796	105.000	69.838	105.000	69.881	105.000	69.923	105.000	69.966	105.000	70.009
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109.500	70.730	109.500	70.773	110.000	70.815	110.500	70.858	110.500	70.900	110.500	70.943	110.500	70.985	111.000	71.028
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113.000	71.410	113.000	71.452	113.000	71.495	113.000	71.537	113.500	71.580	113.500	71.622	113.500	71.665	113.500	71.707
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115.000	72.090	115.500	72.132	115.500	72.175	115.500	72.217	115.500	72.259	115.500	72.302	116.000	72.344	116.000	72.387
116.000	72.429	116.000	72.472	116.500	72.514	116.500	72.557	117.000	72.599	117.500	72.642	117.500	72.684	118.000	72.727
118.500	72.769	118.500	72.812	118.500	72.854	119.000	72.897	119.000	72.939	119.000	72.982	119.500	73.024	119.500	73.067
119.500	73.109	120.000	73.152	120.000	73.194	120.000	73.237	120.500	73.279	120.500	73.322	120.500	73.364	121.000	73.406
121.000	73.449	121.000	73.491	121.500	73.534	121.500	73.576	121.500	73.619	121.500	73.661	122.000	73.704	122.000	73.746
122.000	73.789	122.500	73.831	122.500	73.874	123.000	73.916	123.000	73.959	123.000	74.001	123.500	74.044	124.000	74.086
124.000	74.129	124.000	74.171	124.000	74.214	124.500	74.256	124.500	74.299	125.000	74.341	125.000	74.384	125.000	74.426
125.500	74.468	125.500	74.511	125.500	74.553	126.000	74.596	126.000	74.638	126.000	74.681	126.500	74.723	126.500	74.766
126.500	74.808	127.000	74.851	127.000	74.893	127.500	74.936	127.500	74.978	128.000	75.021	128.500	75.063	129.000	75.106
129.500	75.148	129.500	75.191	129.500	75.233	130.000	75.276	130.000	75.318	130.000	75.361	130.500	75.403	130.500	75.446

131.000	75.488	131.000	75.531	131.500	75.573	132.000	75.615	132.000	75.658	132.000	75.700	132.000	75.743	132.500	75.785
132.500	75.828	132.500	75.870	133.000	75.913	133.000	75.955	133.000	75.998	133.500	76.040	134.000	76.083	134.000	76.125
134.000	76.168	134.000	76.210	134.500	76.253	134.500	76.295	134.500	76.338	135.500	76.380	135.500	76.423	135.500	76.465
136.500	76.508	136.500	76.550	137.000	76.593	137.000	76.635	137.500	76.678	137.500	76.720	138.000	76.762	138.000	76.805
138.500	76.847	138.500	76.890	138.500	76.932	138.500	76.975	139.000	77.017	139.000	77.060	139.500	77.102	140.000	77.145
140.000	77.187	140.000	77.230	140.000	77.272	140.000	77.315	140.000	77.357	140.500	77.400	140.500	77.442	140.500	77.485
141.000	77.527	141.000	77.570	141.500	77.612	142.000	77.655	142.000	77.697	142.000	77.740	142.000	77.782	142.000	77.824
142.000	77.867	142.500	77.909	142.500	77.952	142.500	77.994	143.000	78.037	143.500	78.079	143.500	78.122	143.500	78.164
143.500	78.207	144.000	78.249	144.000	78.292	145.000	78.334	145.000	78.377	145.000	78.419	145.500	78.462	145.500	78.504
145.500	78.547	145.500	78.589	145.500	78.632	146.000	78.674	146.000	78.717	146.500	78.759	146.500	78.802	147.000	78.844
147.000	78.887	147.000	78.929	147.000	78.971	147.000	79.014	148.000	79.056	148.000	79.099	149.000	79.141	149.500	79.184
150.500	79.226	150.500	79.269	150.500	79.311	150.500	79.354	151.000	79.396	151.000	79.439	151.000	79.481	151.500	79.524
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154.500	79.906	155.000	79.949	155.000	79.991	155.000	80.033	155.500	80.076	155.500	80.118	156.000	80.161	156.500	80.203
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158.000	80.586	159.000	80.628	159.500	80.671	160.000	80.713	160.000	80.756	160.500	80.798	161.000	80.841	162.000	80.883
162.000	80.926	162.000	80.968	162.000	81.011	162.500	81.053	163.000	81.096	164.000	81.138	164.500	81.180	165.000	81.223
165.500	81.265	165.500	81.308	166.000	81.350	166.000	81.393	166.500	81.435	166.500	81.478	165.500	81.520	166.500	81.563
167.000	81.605	167.000	81.648	167.000	81.690	167.000	81.733	167.500	81.775	167.500	81.818	168.000	81.860	169.000	81.903
168.500	81.945	168.500	81.988	168.500	82.030	168.500	82.073	169.500	82.115	170.000	82.158	170.000	82.200	171.000	82.242
171.000	82.285	172.000	82.327	172.000	82.370	172.500	82.412	173.000	82.455	173.000	82.497	173.000	82.540	173.500	82.582
174.000	82.625	174.000	82.667	174.500	82.710	176.000	82.752	176.000	82.795	176.000	82.837	176.500	82.880	177.500	82.922
178.500	82.965	179.000	83.007	179.500	83.050	179.500	83.092	180.000	83.135	181.000	83.177	181.000	83.220	181.000	83.262
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185.000	83.644	185.000	83.687	185.000	83.729	185.500	83.772	186.000	83.814	186.000	83.857	186.000	83.899	186.000	83.942
186.500	83.984	186.500	84.027	186.500	84.069	187.000	84.112	187.000	84.154	187.500	84.197	187.500	84.239	188.000	84.282
188.500	84.324	188.500	84.367	188.500	84.409	189.000	84.452	189.500	84.494	191.000	84.536	192.000	84.579	192.500	84.621
193.000	84.664	193.000	84.706	194.500	84.749	195.000	84.791	195.500	84.834	197.000	84.876	198.000	84.919	199.500	84.961
198.500	85.004	199.000	85.046	199.500	85.089	199.500	85.131	199.500	85.174	200.000	85.216	200.000	85.259	200.500	85.301
201.500	85.344	202.000	85.386	202.500	85.429	202.500	85.471	204.000	85.514	204.500	85.556	204.500	85.598	205.000	85.641
205.500	85.683	205.500	85.726	206.000	85.768	206.500	85.811	207.000	85.853	207.500	85.896	208.000	85.938	208.000	85.981
208.000	86.023	208.500	86.066	210.000	86.108	210.500	86.151	211.000	86.193	211.000	86.236	211.000	86.278	211.000	86.321
211.000	86.363	212.000	86.406	212.000	86.448	212.000	86.491	213.500	86.533	213.500	86.576	213.500	86.618	214.000	86.661
214.500	86.703	214.500	86.745	214.500	86.788	214.500	86.830	214.500	86.873	215.000	86.915	215.000	86.958	215.000	87.000
216.000	87.043	216.000	87.085	216.500	87.128	216.500	87.170	217.000	87.213	217.000	87.255	218.000	87.298	219.000	87.340
219.500	87.383	220.000	87.425	220.500	87.468	221.000	87.510	221.000	87.553	221.500	87.595	223.000	87.638	223.000	87.680
223.500	87.723	223.500	87.765	223.500	87.807	224.000	87.850	224.000	87.892	224.500	87.935	224.500	87.977	225.000	88.020
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238.500	89.082	239.000	89.124	239.000	89.167	239.500	89.209	240.000	89.252	240.000	89.294	240.500	89.337	241.500	89.379
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253.000	90.441	254.500	90.484	255.000	90.526	255.000	90.569	256.000	90.611	256.000	90.654	257.000	90.696	257.000	90.739
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262.500	91.121	263.000	91.163	263.000	91.206	263.000	91.248	263.500	91.291	263.500	91.333	263.500	91.376	263.500	91.418
264.500	91.461	264.500	91.503	265.000	91.546	266.500	91.588	267.000	91.631	268.000	91.673	269.000	91.716	269.500	91.758
271.500	91.801	272.000	91.843	273.000	91.886	274.500	91.928	274.500	91.971	275.000	92.013	276.000	92.056	276.000	92.098
277.500	92.141	279.000	92.183	287.000	92.226	287.500	92.268	287.500	92.310	287.500	92.353	288.500	92.395	289.000	92.438
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293.000	92.820	294.000	92.863	294.500	92.905	295.500	92.948	296.000	92.990	297.000	93.033	299.500	93.075	299.000	93.118
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337.500	94.859	339.000	94.902	338.000	94.944	338.500	94.987	338.500	95.029	339.000	95.072	340.000	95.114	340.000	95.157
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358.500	95.539	358.500	95.582	360.000	95.624	360.000	95.666	362.000	95.709	363.000	95.751	365.000	95.794	366.500	95.836
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375.500	96.219	376.000	96.261	378.500	96.304	379.000	96.346	380.000	96.389	383.000	96.431	387.000	96.474	388.500	96.516
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401.500	96.898	402.500	96.941	405.000	96.983	405.000	97.026	406.000	97.068	408.000	97.111	408.500	97.153	408.500	97.196
410.000	97.238	411.500	97.281	416.000	97.323	416.500	97.366	419.500	97.408	420.000	97.451	422.000	97.493	422.000	97.536
430.000	97.578	432.000	97.621	435.500	97.663	438.000	97.706	442.000	97.748	443.500	97.791	451.500	97.833	456.500	97.875
459.000	97.918	459.000	97.960	459.500	98.003	462.000	98.045	464.500	98.088	473.000	98.130	476.500	98.173	481.500	98.215
486.500	98.255	493.000	98.300	496.500	98.343	499.000	98.385	509.000	98.428	510.500	98.470	521.000	98.513	523.000	98.555
530.000	98.598	537.000	98.640	538.000	98.683	540.000	98.725	547.000	98.768	550.000	98.810	554.000	98.853	556.000	98.895
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644.500	99.277	647.500	99.320	649.000	99.362	649.500	99.405	660.500	99.447	660.500	99.490	717.000	99.532	741.000	99.575
757.000	99.617	759.500	99.660	763.000	99.702	787.000	99.745	821.500	99.787	860.500	99.830	902.000	99.872	918.000	99.915
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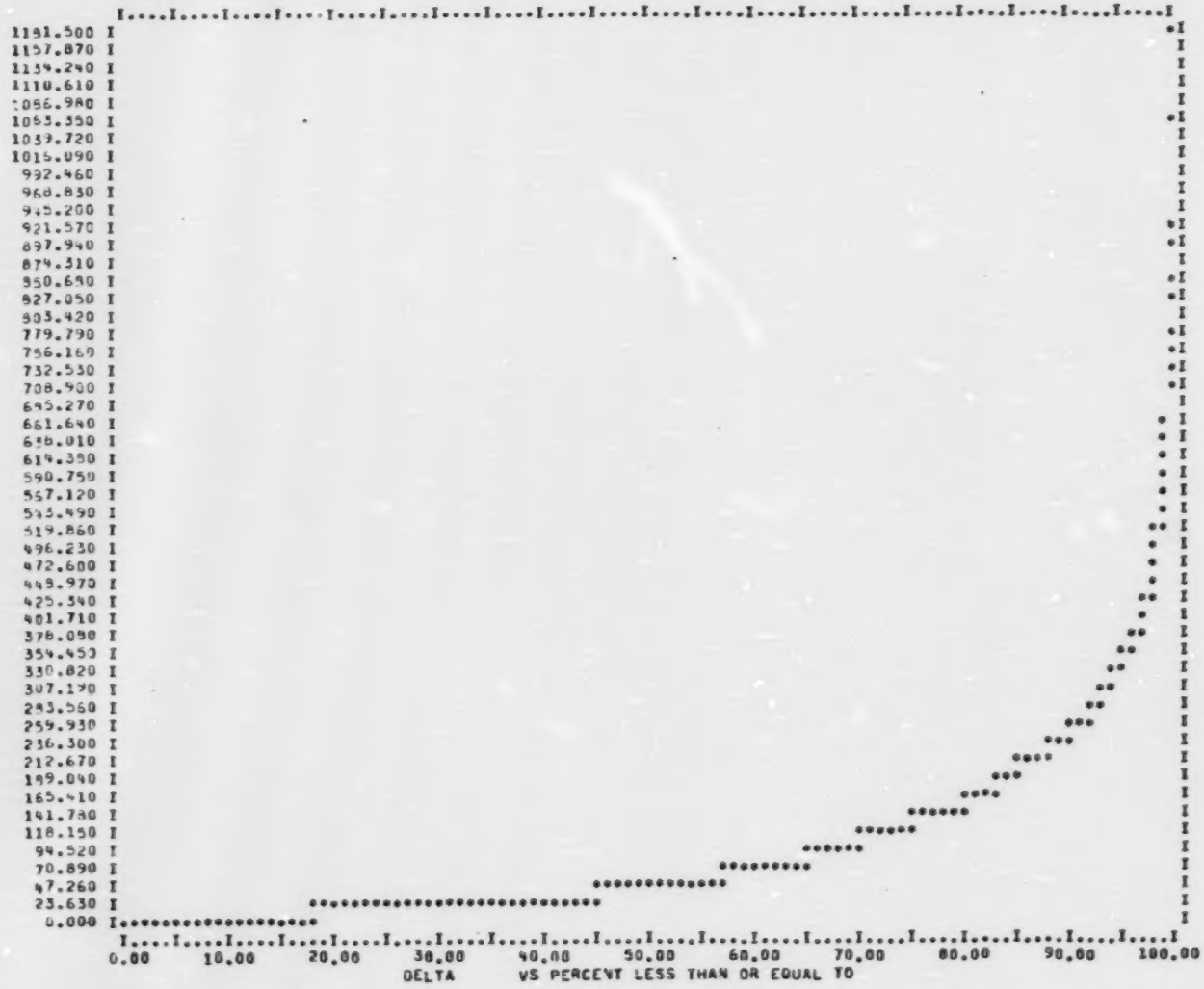
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496.230
472.600
448.970
425.340
401.710
378.080
354.450
330.820
307.190
283.560
259.930
236.300
212.670
189.040
165.410
141.780
118.150
94.520
70.890
47.260
23.630
0.000
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
90.00
100.00
DELTA VS PERCENT LESS THAN OR EQUAL TO

RETURN PERIOD (IN YEARS) FOR DELTA

VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD	VALUE	PERIOD
1181.500	26.000	1071.500	13.000	918.000	8.666	902.000	6.500	860.500	5.200	821.500	4.333	787.000	3.714	763.000	3.250
759.500	2.888	757.000	2.600	741.000	2.363	717.000	2.166	660.500	2.000	660.500	1.857	649.500	1.733	649.000	1.625
647.500	1.529	644.500	1.444	636.500	1.368	636.000	1.300	616.500	1.238	608.500	1.181	606.000	1.130	579.500	1.083
569.500	1.040	566.000	1.000	556.000	0.962	554.000	0.928	550.000	0.896	547.000	0.866	540.000	0.838	538.000	0.812
537.000	0.787	530.000	0.764	523.000	0.742	521.000	0.722	510.500	0.702	509.000	0.684	499.000	0.666	496.500	0.650
493.000	0.634	486.500	0.619	481.500	0.604	476.500	0.590	473.000	0.577	464.500	0.565	462.000	0.553	459.500	0.541
459.000	0.530	459.000	0.520	456.500	0.509	451.500	0.500	443.500	0.490	442.000	0.481	438.000	0.472	435.500	0.464
432.000	0.456	430.000	0.448	422.000	0.440	422.000	0.433	420.000	0.426	419.500	0.419	416.500	0.412	416.000	0.406
411.500	0.400	410.000	0.393	408.500	0.388	408.500	0.382	408.000	0.376	406.000	0.371	405.000	0.366	405.000	0.361
402.500	0.356	401.500	0.351	399.000	0.346	399.000	0.342	397.500	0.337	397.000	0.333	394.000	0.329	392.500	0.325
392.000	0.320	391.500	0.317	388.500	0.313	387.000	0.309	383.000	0.305	380.000	0.302	379.000	0.298	378.500	0.295
376.000	0.292	375.500	0.288	375.000	0.285	374.000	0.282	373.500	0.279	373.000	0.276	372.000	0.273	371.500	0.270
370.000	0.268	369.000	0.265	366.500	0.262	365.000	0.260	363.000	0.257	362.000	0.254	360.000	0.252	360.000	0.250
358.500	0.247	358.500	0.245	351.500	0.242	351.000	0.240	350.000	0.238	346.000	0.236	344.500	0.234	344.500	0.232
342.500	0.230	340.000	0.228	340.000	0.226	340.000	0.224	339.000	0.222	338.500	0.220	338.500	0.218	338.000	0.216
338.000	0.214	337.500	0.213	336.500	0.211	335.500	0.209	335.000	0.208	334.500	0.206	334.500	0.204	333.500	0.203
332.500	0.201	331.500	0.200	331.000	0.198	330.500	0.196	330.500	0.195	330.500	0.194	330.000	0.192	329.000	0.191
329.000	0.189	328.500	0.188	328.000	0.187	328.000	0.185	325.500	0.184	325.500	0.183	323.000	0.181	322.500	0.180
322.500	0.179	319.500	0.178	319.000	0.176	319.000	0.175	318.000	0.174	318.000	0.173	317.500	0.172	317.000	0.171
314.000	0.169	309.500	0.168	309.500	0.167	305.500	0.166	305.000	0.165	304.500	0.164	303.500	0.163	301.000	0.162
301.000	0.161	299.000	0.160	299.000	0.159	298.500	0.158	297.000	0.157	296.000	0.156	295.500	0.155	294.500	0.154
294.000	0.153	293.000	0.152	293.000	0.152	292.000	0.151	291.500	0.150	290.500	0.149	290.000	0.148	289.500	0.147
289.000	0.146	289.000	0.146	289.000	0.145	288.500	0.144	287.500	0.143	287.500	0.142	287.500	0.142	287.000	0.141
279.000	0.140	277.500	0.139	276.000	0.139	276.000	0.138	275.000	0.137	274.500	0.136	274.500	0.136	273.000	0.135
272.000	0.134	271.500	0.134	269.500	0.133	268.000	0.132	268.000	0.131	267.000	0.131	266.500	0.130	265.000	0.130
264.500	0.129	264.500	0.128	263.500	0.128	263.500	0.127	263.500	0.126	263.500	0.126	263.000	0.125	263.000	0.125
263.000	0.124	262.500	0.123	261.500	0.123	260.500	0.122	260.500	0.122	259.000	0.121	258.500	0.120	257.500	0.120
257.500	0.119	257.000	0.119	257.000	0.118	257.000	0.118	256.000	0.117	256.000	0.117	255.000	0.116	255.000	0.116
254.500	0.115	253.000	0.115	253.000	0.114	252.500	0.114	252.000	0.113	251.500	0.113	251.000	0.112	249.500	0.112
249.000	0.111	248.000	0.111	247.000	0.110	246.500	0.110	246.000	0.109	246.000	0.109	245.000	0.108	244.500	0.108
244.000	0.107	243.500	0.107	243.000	0.106	243.000	0.106	243.000	0.106	242.500	0.105	242.500	0.105	242.500	0.104
242.500	0.104	242.000	0.104	241.500	0.103	240.500	0.103	240.000	0.102	240.000	0.102	239.500	0.101	239.000	0.101
239.000	0.101	238.500	0.100	238.500	0.100	237.500	0.100	237.000	0.099	237.000	0.099	236.000	0.098	236.000	0.098
236.000	0.098	235.500	0.097	235.500	0.097	235.500	0.097	235.000	0.096	234.500	0.096	233.500	0.095	233.000	0.095
233.000	0.095	232.500	0.094	231.000	0.094	230.500	0.094	229.500	0.093	229.000	0.093	229.000	0.093	226.000	0.092
225.500	0.092	225.500	0.092	225.000	0.091	224.500	0.091	224.500	0.091	224.000	0.090	224.000	0.090	223.500	0.090
223.500	0.089	223.500	0.089	223.000	0.089	223.000	0.089	221.500	0.088	221.000	0.088	221.000	0.088	220.500	0.087
220.000	0.087	219.500	0.087	219.000	0.086	218.000	0.086	217.000	0.086	217.000	0.086	216.500	0.085	216.500	0.085
216.000	0.085	216.000	0.084	215.000	0.084	215.000	0.084	215.000	0.084	214.500	0.083	214.500	0.083	214.500	0.083
214.500	0.083	214.500	0.082	214.000	0.082	213.500	0.082	213.500	0.082	213.500	0.081	212.000	0.081	212.000	0.081
212.000	0.080	211.000	0.080	211.000	0.080	211.000	0.080	211.000	0.080	211.000	0.079	210.500	0.079	210.000	0.079
209.500	0.079	209.000	0.078	208.000	0.079	208.000	0.078	207.500	0.078	207.000	0.077	206.500	0.077	206.000	0.077
205.500	0.077	205.500	0.076	205.000	0.076	204.500	0.076	204.500	0.076	204.000	0.076	202.500	0.075	202.500	0.075
202.000	0.075	201.500	0.075	200.500	0.074	200.000	0.074	200.000	0.074	199.500	0.074	199.500	0.074	199.500	0.073
199.000	0.073	198.500	0.073	198.500	0.073	198.000	0.073	197.000	0.072	195.500	0.072	195.000	0.072	194.500	0.072
193.000	0.072	193.000	0.071	192.500	0.071	192.000	0.071	191.000	0.071	189.500	0.071	189.000	0.070	188.500	0.070
188.500	0.070	188.500	0.070	188.000	0.070	187.500	0.069	187.500	0.069	187.000	0.069	187.000	0.069	186.500	0.069
186.500	0.069	186.500	0.068	186.000	0.068	186.000	0.068	186.000	0.068	186.000	0.068	185.500	0.067	185.000	0.067
185.000	0.067	185.000	0.067	183.500	0.067	183.000	0.067	183.000	0.066	183.000	0.066	182.500	0.066	182.500	0.066
182.500	0.066	181.500	0.065	181.000	0.065	181.000	0.065	181.000	0.065	180.000	0.065	179.500	0.065	179.500	0.065
179.000	0.064	178.500	0.064	177.500	0.064	176.500	0.064	176.000	0.064	176.000	0.064	176.000	0.063	174.500	0.063
174.000	0.063	174.000	0.063	173.500	0.063	173.000	0.063	173.000	0.062	173.000	0.062	172.500	0.062	172.000	0.062
172.000	0.062	171.000	0.062	171.000	0.062	170.000	0.061	170.000	0.061	169.500	0.061	168.500	0.061	168.500	0.061

169.500	0.061	169.500	0.061	168.000	0.060	168.000	0.060	167.500	0.060	167.500	0.060	167.000	0.060	167.000	0.060		
167.000	0.060	167.000	0.059	166.500	0.059	166.500	0.059	166.500	0.059	166.500	0.059	166.000	0.059	166.000	0.059		
165.500	0.058	165.500	0.058	165.000	0.058	164.500	0.058	164.000	0.058	163.000	0.058	162.500	0.058	162.000	0.058		
162.000	0.057	162.000	0.057	162.000	0.057	161.000	0.057	160.500	0.057	160.000	0.057	160.000	0.057	159.500	0.057		
159.000	0.056	158.000	0.056	158.000	0.056	158.000	0.056	157.500	0.056	157.500	0.056	156.500	0.056	156.500	0.056		
156.500	0.055	156.500	0.055	156.500	0.055	156.000	0.055	155.500	0.055	155.500	0.055	155.000	0.055	155.000	0.055		
155.000	0.054	154.500	0.054	154.000	0.054	153.500	0.054	153.500	0.054	153.000	0.054	153.000	0.054	152.000	0.054		
152.000	0.054	152.000	0.053	151.500	0.053	151.000	0.053	151.000	0.053	151.000	0.053	150.500	0.053	150.500	0.053		
150.500	0.053	150.500	0.053	149.500	0.052	149.000	0.052	148.000	0.052	148.000	0.052	147.000	0.052	147.000	0.052		
147.000	0.052	147.000	0.052	147.000	0.052	146.500	0.052	146.500	0.051	146.000	0.051	146.000	0.051	145.500	0.051		
145.500	0.051	145.500	0.051	145.500	0.051	145.000	0.051	145.000	0.051	145.000	0.050	145.000	0.050	144.000	0.050		
144.000	0.050	143.500	0.050	143.500	0.050	143.500	0.050	143.500	0.050	143.000	0.050	142.500	0.050	142.500	0.050		
142.500	0.049	142.000	0.049	142.000	0.049	142.000	0.049	142.000	0.049	142.000	0.049	142.000	0.049	141.500	0.049		
141.000	0.049	141.000	0.049	140.500	0.048	140.500	0.048	140.500	0.048	140.000	0.048	140.000	0.048	140.000	0.048		
140.000	0.048	140.000	0.048	140.000	0.048	139.500	0.048	139.000	0.048	139.000	0.047	139.500	0.047	139.500	0.047		
138.500	0.047	138.500	0.047	138.000	0.047	138.000	0.047	137.500	0.047	137.500	0.047	137.000	0.047	137.000	0.047		
136.500	0.047	136.500	0.046	135.500	0.046	135.500	0.046	135.500	0.046	134.500	0.046	134.500	0.046	134.500	0.046		
134.000	0.046	134.000	0.046	134.000	0.046	134.000	0.046	133.500	0.046	133.000	0.045	133.000	0.045	133.000	0.045		
132.500	0.045	132.500	0.045	132.500	0.045	132.000	0.045	132.000	0.045	132.000	0.045	132.000	0.045	131.500	0.045		
131.000	0.045	131.000	0.044	130.500	0.044	130.500	0.044	130.000	0.044	130.000	0.044	130.000	0.044	129.500	0.044		
129.500	0.044	129.500	0.044	129.000	0.044	128.500	0.044	128.000	0.044	127.500	0.044	127.500	0.043	127.000	0.043		
127.000	0.043	126.500	0.043	126.500	0.043	126.500	0.043	126.000	0.043	126.000	0.043	126.000	0.043	125.500	0.043		
125.500	0.043	125.500	0.043	125.000	0.043	125.000	0.043	125.000	0.042	124.500	0.042	124.500	0.042	124.000	0.042		
124.000	0.042	124.000	0.042	124.000	0.042	123.500	0.042	123.000	0.042	123.000	0.042	123.000	0.042	122.500	0.042		
122.500	0.042	122.000	0.042	122.000	0.042	122.000	0.041	121.500	0.041	121.500	0.041	121.500	0.041	121.500	0.041		
121.000	0.041	121.000	0.041	121.000	0.041	120.500	0.041	120.500	0.041	120.500	0.041	120.000	0.041	120.000	0.041		
120.000	0.041	119.500	0.041	119.500	0.040	119.500	0.040	119.000	0.040	119.000	0.040	119.000	0.040	118.500	0.040		
118.500	0.040	118.500	0.040	118.000	0.040	117.500	0.040	117.500	0.040	117.000	0.040	116.500	0.040	116.500	0.040		
116.000	0.040	116.000	0.040	116.000	0.039	116.000	0.039	115.500	0.039	115.500	0.039	115.500	0.039	115.500	0.039		
115.500	0.039	115.000	0.039	115.000	0.039	115.000	0.039	115.000	0.039	114.500	0.039	114.500	0.039	114.000	0.039		
113.500	0.039	113.500	0.039	113.500	0.038	113.500	0.038	113.500	0.038	113.500	0.038	113.000	0.038	113.000	0.038		
113.000	0.038	113.000	0.038	112.500	0.038	112.500	0.038	112.500	0.038	112.000	0.038	112.000	0.038	111.500	0.038		
111.500	0.038	111.500	0.038	111.000	0.038	110.500	0.038	110.500	0.037	110.500	0.037	110.500	0.037	110.000	0.037		
109.500	0.037	109.500	0.037	109.500	0.037	109.000	0.037	109.000	0.037	108.500	0.037	107.500	0.037	107.500	0.037		
107.500	0.037	107.000	0.037	107.000	0.037	107.000	0.037	107.000	0.037	106.500	0.037	106.000	0.036	106.000	0.036		
106.000	0.036	105.500	0.036	105.000	0.036	105.000	0.036	105.000	0.036	105.000	0.036	105.000	0.036	104.500	0.036		
104.500	0.036	104.500	0.036	104.000	0.036	104.000	0.036	104.000	0.036	102.500	0.036	102.500	0.036	102.500	0.036		
102.500	0.036	102.000	0.036	102.000	0.035	101.500	0.035	101.500	0.035	101.500	0.035	101.000	0.035	101.000	0.035		
100.500	0.035	100.000	0.035	100.000	0.035	99.500	0.035	99.500	0.035	99.000	0.035	98.500	0.035	98.500	0.035		
98.500	0.035	98.000	0.035	98.000	0.035	98.000	0.035	98.000	0.035	98.000	0.035	98.000	0.034	98.000	0.034		
97.500	0.034	97.500	0.034	97.500	0.034	97.000	0.034	97.000	0.034	97.000	0.034	97.000	0.034	96.500	0.034		
96.500	0.034	96.500	0.034	96.500	0.034	96.000	0.034	96.000	0.034	96.000	0.034	96.000	0.034	96.000	0.034		
96.000	0.034	96.000	0.034	95.500	0.034	95.500	0.034	95.500	0.033	95.500	0.033	95.500	0.033	95.500	0.033		
95.000	0.033	95.000	0.033	95.000	0.033	95.000	0.033	95.000	0.033	94.500	0.033	94.500	0.033	94.000	0.033		
94.000	0.033	94.000	0.033	94.000	0.033	94.000	0.033	93.500	0.033	93.500	0.033	93.500	0.033	93.000	0.033		
93.000	0.033	93.000	0.033	92.500	0.033	92.500	0.032	92.500	0.032	92.500	0.032	92.500	0.032	92.500	0.032		
92.000	0.032	92.000	0.032	92.000	0.032	91.500	0.032	91.500	0.032	91.500	0.032	91.500	0.032	91.000	0.032		
91.000	0.032	91.000	0.032	90.000	0.032	90.000	0.032	89.500	0.032	89.500	0.032	89.000	0.032	89.000	0.032		
89.000	0.032	88.000	0.032	88.000	0.032	87.500	0.032	87.000	0.031	87.000	0.031	87.000	0.031	87.000	0.031		
87.000	0.031	86.500	0.031	86.500	0.031	86.500	0.031	86.000	0.031	86.000	0.031	85.500	0.031	85.500	0.031		
85.500	0.031	85.500	0.031	85.000	0.031	84.000	0.031	84.000	0.031	84.000	0.031	83.500	0.031	83.500	0.031		
83.500	0.031	83.000	0.031	82.500	0.031	81.500	0.031	81.000	0.031	81.000	0.031	81.000	0.030	81.000	0.030		
81.000	0.030	80.500	0.030	80.500	0.030	80.000	0.030	80.000	0.030	80.000	0.030	80.000	0.030	80.000	0.030		
80.000	0.030	79.500	0.030	79.500	0.030	79.000	0.030	79.000	0.030	79.000	0.030	79.000	0.030	79.000	0.030		
78.500	0.030	78.500	0.030	78.500	0.030	78.000	0.030	78.000	0.030	78.000	0.030	77.500	0.030	77.500	0.030		
77.500	0.030	77.500	0.030	77.500	0.029	77.000	0.029	77.000	0.029	77.000	0.029	77.000	0.029	77.000	0.029		
76.500	0.029	76.500	0.029	76.500	0.029	76.500	0.029	76.500	0.029	76.000	0.029	76.000	0.029	76.000	0.029		

76.000	0.029	75.500	0.029	75.500	0.029	75.000	0.029	75.000	0.029	75.000	0.029	75.000	0.029	75.000	0.029
75.000	0.029	75.000	0.029	75.000	0.029	74.500	0.029	74.500	0.029	74.000	0.029	74.000	0.029	74.000	0.029
74.000	0.028	73.500	0.028	73.500	0.028	73.500	0.028	73.500	0.028	73.500	0.029	73.500	0.028	73.500	0.028
73.000	0.028	73.000	0.028	73.000	0.028	73.000	0.028	73.000	0.028	72.500	0.028	72.500	0.028	72.500	0.028
72.500	0.028	72.500	0.028	72.000	0.028	72.000	0.028	72.000	0.028	72.000	0.028	72.000	0.028	72.000	0.028
72.000	0.028	71.500	0.028	71.500	0.028	71.500	0.028	71.500	0.028	71.500	0.028	71.000	0.028	71.000	0.028
71.000	0.027	71.000	0.027	71.000	0.027	71.000	0.027	71.000	0.027	70.500	0.027	70.500	0.027	70.500	0.027
70.000	0.027	70.000	0.027	70.000	0.027	69.500	0.027	69.500	0.027	69.500	0.027	69.500	0.027	69.000	0.027
69.000	0.027	69.000	0.027	69.000	0.027	69.000	0.027	69.000	0.027	69.000	0.027	68.500	0.027	68.000	0.027
68.000	0.027	68.000	0.027	67.500	0.027	67.500	0.027	67.500	0.027	67.500	0.027	67.500	0.027	67.000	0.027
67.000	0.027	67.000	0.027	67.000	0.026	67.000	0.026	66.500	0.026	66.500	0.026	66.500	0.026	66.500	0.026
66.000	0.026	66.000	0.026	66.000	0.026	66.000	0.026	65.500	0.026	65.500	0.026	65.000	0.026	65.000	0.026
65.000	0.026	65.000	0.026	65.000	0.026	65.000	0.026	65.000	0.026	64.500	0.026	64.500	0.026	64.500	0.026
64.500	0.026	64.500	0.026	64.000	0.026	64.000	0.026	64.000	0.026	64.000	0.026	63.500	0.026	63.500	0.026
63.500	0.026	63.500	0.026	63.000	0.026	63.000	0.026	63.000	0.026	63.000	0.026	62.500	0.026	62.500	0.026
62.000	0.025	62.000	0.025	61.500	0.025	61.000	0.025	61.000	0.025	61.000	0.025	60.500	0.025	60.500	0.025
60.000	0.025	60.000	0.025	60.000	0.025	60.000	0.025	59.500	0.025	59.500	0.025	59.500	0.025	59.000	0.025
59.000	0.025	59.000	0.025	59.000	0.025	59.000	0.025	58.500	0.025	58.500	0.025	58.000	0.025	58.000	0.025
58.000	0.025	58.000	0.025	57.500	0.025	57.500	0.025	57.500	0.025	57.500	0.025	57.000	0.025	57.000	0.025
57.000	0.025	57.000	0.025	57.000	0.025	57.000	0.025	57.000	0.025	56.000	0.025	56.000	0.025	55.500	0.025
55.500	0.024	55.000	0.024	55.000	0.024	55.000	0.024	55.000	0.024	55.000	0.024	54.500	0.024	54.000	0.024
54.000	0.024	53.500	0.024	53.500	0.024	53.500	0.024	53.500	0.024	53.500	0.024	53.000	0.024	53.000	0.024
53.000	0.024	53.000	0.024	52.500	0.024	52.500	0.024	52.500	0.024	52.000	0.024	52.000	0.024	52.000	0.024
52.000	0.024	52.000	0.024	52.000	0.024	51.500	0.024	51.500	0.024	51.500	0.024	51.500	0.024	51.500	0.024
51.000	0.024	51.000	0.024	51.000	0.024	51.000	0.024	51.000	0.024	51.000	0.024	50.500	0.024	50.500	0.024
50.500	0.024	50.500	0.024	50.500	0.024	50.500	0.023	50.500	0.023	50.000	0.023	50.000	0.023	50.000	0.023
50.000	0.023	50.000	0.023	50.000	0.023	49.500	0.023	49.500	0.023	49.500	0.023	49.500	0.023	49.000	0.023
49.000	0.023	49.000	0.023	49.000	0.023	49.000	0.023	49.000	0.023	49.000	0.023	49.000	0.023	49.000	0.023
49.000	0.023	49.000	0.023	48.500	0.023	48.500	0.023	48.500	0.023	48.500	0.023	48.500	0.023	48.500	0.023
48.500	0.023	48.500	0.023	48.000	0.023	48.000	0.023	48.000	0.023	48.000	0.023	48.000	0.023	48.000	0.023
48.000	0.023	48.000	0.023	48.000	0.023	47.500	0.023	47.500	0.023	47.500	0.023	47.500	0.023	47.500	0.023
47.500	0.023	47.500	0.023	47.500	0.022	47.000	0.022	47.000	0.022	47.000	0.022	47.000	0.022	47.000	0.022
47.000	0.022	47.000	0.022	47.000	0.022	47.000	0.022	47.000	0.022	47.000	0.022	46.500	0.022	46.500	0.022
46.500	0.022	46.500	0.022	46.500	0.022	46.500	0.022	46.500	0.022	46.500	0.022	46.500	0.022	46.000	0.022
46.000	0.022	46.000	0.022	46.000	0.022	46.000	0.022	46.000	0.022	46.000	0.022	46.000	0.022	46.000	0.022
46.000	0.022	46.000	0.022	46.000	0.022	45.500	0.022	45.500	0.022	45.500	0.022	45.500	0.022	45.500	0.022
45.500	0.022	45.500	0.022	45.500	0.022	45.000	0.022	45.000	0.022	45.000	0.022	45.000	0.022	44.500	0.022
44.500	0.022	44.500	0.022	44.500	0.022	44.500	0.022	44.500	0.022	44.500	0.021	44.500	0.021	44.500	0.021
44.500	0.021	44.500	0.021	44.500	0.021	44.000	0.021	44.000	0.021	44.000	0.021	44.000	0.021	44.000	0.021
44.000	0.021	44.000	0.021	44.000	0.021	44.000	0.021	43.500	0.021	43.500	0.021	43.500	0.021	43.500	0.021
43.500	0.021	43.000	0.021	43.000	0.021	43.000	0.021	43.000	0.021	43.000	0.021	43.000	0.021	43.000	0.021
43.000	0.021	42.500	0.021	42.500	0.021	42.500	0.021	42.500	0.021	42.000	0.021	42.000	0.021	42.000	0.021
42.000	0.021	42.000	0.021	42.000	0.021	41.500	0.021	41.500	0.021	41.500	0.021	41.000	0.021	40.500	0.021
40.500	0.021	40.500	0.021	40.500	0.021	40.500	0.021	40.500	0.021	40.500	0.021	40.000	0.021	40.000	0.021
40.000	0.021	40.000	0.021	40.000	0.021	39.500	0.021	39.500	0.021	39.500	0.021	39.500	0.020	39.000	0.020
39.000	0.020	39.000	0.020	39.000	0.020	39.000	0.020	39.000	0.020	38.500	0.020	38.500	0.020	38.500	0.020
38.500	0.020	38.500	0.020	38.500	0.020	38.500	0.020	38.500	0.020	38.000	0.020	38.000	0.020	38.000	0.020
38.000	0.020	38.000	0.020	38.000	0.020	38.000	0.020	37.500	0.020	37.500	0.020	37.500	0.020	37.000	0.020
37.000	0.020	37.000	0.020	37.000	0.020	37.000	0.020	36.500	0.020	36.500	0.020	36.500	0.020	36.500	0.020
36.500	0.020	36.000	0.020	36.000	0.020	36.000	0.020	36.000	0.020	36.000	0.020	36.000	0.020	36.000	0.020
36.000	0.020	36.000	0.020	35.500	0.020	35.500	0.020	35.500	0.020	35.500	0.020	35.000	0.020	35.000	0.020
35.000	0.020	35.000	0.020	34.500	0.020	34.500	0.020	34.500	0.020	34.000	0.020	34.000	0.020	34.000	0.020
34.000	0.020	34.000	0.020	34.000	0.020	33.500	0.020	33.500	0.019	33.500	0.019	33.500	0.019	33.000	0.019
33.000	0.019	32.500	0.019	32.500	0.019	32.000	0.019	32.000	0.019	32.000	0.019	32.000	0.019	32.000	0.019
32.000	0.019	32.000	0.019	32.000	0.019	32.000	0.019	31.500	0.019	31.500	0.019	31.500	0.019	31.500	0.019
31.500	0.019	31.500	0.019	31.500	0.019	31.500	0.019	31.500	0.019	31.000	0.019	31.000	0.019	30.500	0.019
30.500	0.019	30.500	0.019	30.500	0.019	30.500	0.019	30.500	0.019	30.000	0.019	30.000	0.019	30.000	0.019

30.000	0.019	29.500	0.019	29.500	0.019	29.500	0.019	29.500	0.019	29.500	0.019	29.000	0.019	29.000	0.019
29.000	0.019	29.000	0.019	29.000	0.019	29.000	0.019	29.000	0.019	29.000	0.019	29.000	0.019	29.000	0.019
29.500	0.019	29.500	0.019	28.500	0.019	28.500	0.019	28.500	0.019	28.500	0.019	28.500	0.019	28.500	0.019
28.500	0.019	28.500	0.019	28.500	0.019	28.500	0.019	28.500	0.019	28.000	0.019	28.000	0.019	28.000	0.019
28.000	0.018	28.000	0.018	28.000	0.018	28.000	0.018	28.000	0.018	28.000	0.018	28.000	0.018	27.500	0.018
27.500	0.018	27.500	0.018	27.500	0.018	27.500	0.018	27.500	0.018	27.500	0.018	27.500	0.018	27.500	0.018
27.500	0.018	27.500	0.018	27.500	0.018	27.500	0.018	27.500	0.018	27.000	0.018	27.000	0.018	27.000	0.018
27.000	0.018	27.000	0.018	27.000	0.018	27.000	0.018	27.000	0.018	27.000	0.018	27.000	0.018	27.000	0.018
26.500	0.018	26.500	0.018	26.500	0.018	26.500	0.018	26.500	0.018	26.500	0.018	26.500	0.018	26.500	0.018
26.500	0.018	26.500	0.018	26.500	0.018	26.500	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018
26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018
26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018	26.000	0.018
25.500	0.018	25.500	0.018	25.500	0.018	25.500	0.018	25.500	0.018	25.500	0.018	25.500	0.018	25.500	0.018
25.500	0.018	25.000	0.018	25.000	0.018	25.000	0.018	25.000	0.017	25.000	0.017	25.000	0.017	25.000	0.017
25.000	0.017	25.000	0.017	25.000	0.017	25.000	0.017	25.000	0.017	25.000	0.017	25.000	0.017	25.000	0.017
24.500	0.017	24.500	0.017	24.500	0.017	24.500	0.017	24.500	0.017	24.500	0.017	24.500	0.017	24.500	0.017
24.500	0.017	24.500	0.017	24.500	0.017	24.500	0.017	24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017
24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017
24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017	24.000	0.017	23.500	0.017	23.500	0.017	23.500	0.017
23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017
23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017	23.500	0.017
23.500	0.017	23.500	0.017	23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017
23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017	23.000	0.017
23.000	0.017	23.000	0.017	22.500	0.017	22.500	0.017	22.500	0.017	22.500	0.017	22.500	0.017	22.500	0.017
22.500	0.017	22.500	0.016	22.500	0.016	22.500	0.016	22.500	0.016	22.500	0.016	22.500	0.016	22.500	0.016
22.500	0.016	22.500	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016
22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016
22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	22.000	0.016	21.500	0.016	21.500	0.016	21.500	0.016
21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016
21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016	21.500	0.016	21.000	0.016	21.000	0.016
21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016
21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	21.000	0.016	20.500	0.016
20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016
20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.500	0.016	20.000	0.016
20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016
20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016	20.000	0.016
20.000	0.016	20.000	0.015	20.000	0.015	20.000	0.015	20.000	0.015	20.000	0.015	20.000	0.015	19.500	0.015
19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015
19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015	19.500	0.015	19.000	0.015	19.000	0.015
19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015
19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	19.000	0.015	18.500	0.015
18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015
18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015	18.500	0.015
18.500	0.015	18.500	0.015	18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015
18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015	18.000	0.015
18.000	0.015	18.000	0.015	18.000	0.015	17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015
17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015
17.500	0.015	17.500	0.015	17.500	0.015	17.500	0.015	17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015
17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015
17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.015	17.000	0.014	17.000	0.014	17.000	0.014
17.000	0.014	17.000	0.014	17.000	0.014	17.000	0.014	16.500	0.014	16.500	0.014	16.500	0.014	16.500	0.014
16.500	0.014	16.500	0.014	16.500	0.014	16.500	0.014	16.500	0.014	16.500	0.014	16.500	0.014	16.500	0.014
16.000	0.014	16.000	0.014	16.000	0.014	16.000	0.014	16.000	0.014	16.000	0.014	16.000	0.014	16.000	0.014
16.000	0.014	16.000	0.014	16.000	0.014	16.000	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014
15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014
15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.500	0.014	15.000	0.014	15.000	0.014
15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014

15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014	15.000	0.014
14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014
14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014	14.500	0.014
14.500	0.014	14.500	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014
14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014
14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	13.500	0.014
14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	14.000	0.014	13.500	0.014	13.500	0.014
13.500	0.014	13.500	0.014	13.500	0.014	13.500	0.014	13.500	0.014	13.500	0.013	13.500	0.013	13.500	0.013
13.500	0.014	13.500	0.013	13.500	0.013	13.500	0.013	13.500	0.013	13.000	0.013	13.000	0.013	13.000	0.013
13.500	0.013	13.500	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013
13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013
13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013	13.000	0.013
13.000	0.013	13.000	0.013	13.000	0.013	12.500	0.013	12.500	0.013	12.500	0.013	12.500	0.013	12.500	0.013
12.500	0.013	12.500	0.013	12.500	0.013	12.500	0.013	12.500	0.013	12.500	0.013	12.500	0.013	12.500	0.013
12.500	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013
12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013
12.000	0.013	12.000	0.013	12.000	0.013	12.000	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013
11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013
11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013
11.500	0.013	11.500	0.013	11.500	0.013	11.500	0.013	11.000	0.013	11.000	0.013	11.000	0.013	11.000	0.013
11.000	0.013	11.000	0.013	11.000	0.013	11.000	0.013	11.000	0.013	11.000	0.013	11.000	0.013	11.000	0.013
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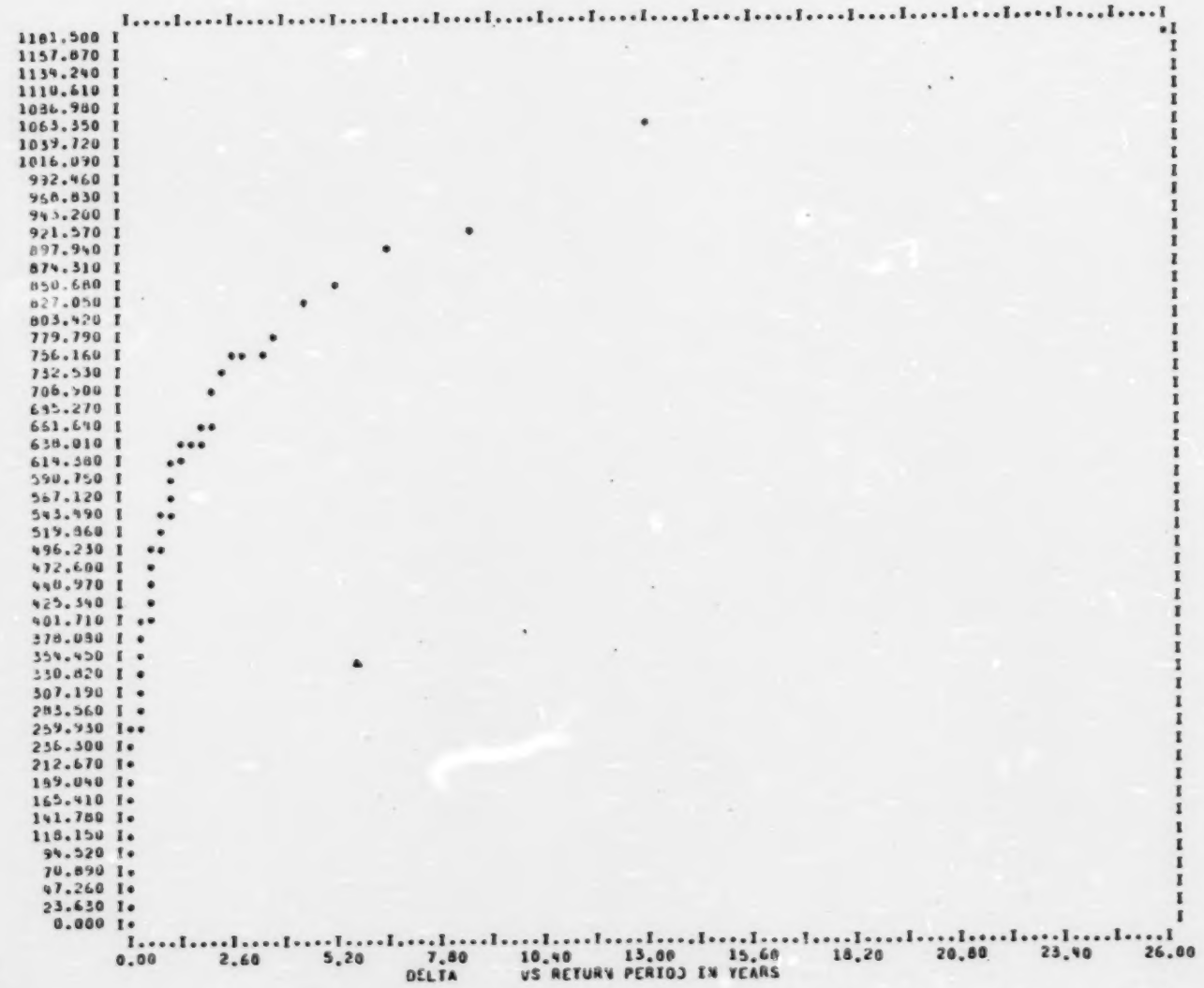
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DELTA VS RETURN PERIOD IN YEARS